COUNCIL OF HIGHER SECONDARY EDUCATION ODISHA, BHUBANESWAR

COURSES OF STUDIES IN ARTS STREAM

FOR THE HIGHER SECONDARY EXAMINATION 2018 AD
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SCHEME OF STUDIES

The following combinations in two years +2 Arts course of 2013-14 admission batch under CHSE(O) are allowed. Any deviation to this shall not be entertained.

1. Compulsory Subjects
   a) English
   b) M.I.L. (Odia / Telugu/ Bengali/ Urdu / Hindi/ Sanskrit/Alternative English)

   Compulsory subjects( English and M.I.L.) carry 200 marks each
   (100 Marks in 1st year and 100 marks in 2nd year)

2. Compulsory Subjects( To be assessed at the college level only)

   Three compulsory subjects, Environmental Education(EE),Yoga , and Basic Computer Education(BCE) carry 100 marks each (1st year-Theory-70 marks and 2nd year -project/practical 30 marks) will be assessed at the college level and the grades (A+, A, B, C,D, in order of merit) are to be awarded by the College and the same shall be recorded in the body of the pass certificate given by the council subsequently. The grade secured in (EE/Yoga/BCE) will not affect the result of the candidate. The grade secured in individual subject shall be as follows.

   Marks Grade
   70% and above Gr A+
   60% to 69% Gr A
   50% to 59% Gr B
   35% to 49% Gr C
   Below 35% Gr D

3. Elective Subjects
   1. History
   2. Political science
   3. Economics/IRPM
   4. Logic/Geography
   5. Mathematics/Home Science
   6. Education/Psychology/Indian Music
   7. Anthropology/Sociology/Statistics
   8. Odia/Sanskrit/Persian/Hindi/Urdu/Bengali/Telugu.
   9. Information Technology.

   Elective subjects carry 200 marks each (100 marks in 1st year and 100 marks in 2nd year). A student has to offer four elective subjects (1st, 2nd, 3rd & 4th electives) in addition to compulsory subjects (English, MIL, EE, YOGA and BCE)
Syllabus for Higher Secondary Education in
ENGLISH for +2 Arts Stream.
(2016 Admission Batch)

+2 1st year (Detailed Syllabus)

UNIT-I : PROSE

i. Standing Up for Yourself Yevgeny Yevtushenko
ii. The Legend behind a Legend Hariharan Balakrishnan
iii. The Golden Touch Nathaniel Hawthorne
iv. In London In Minus Fours Louis Fischer
v. The Cancer Fight, from Hiroshima to Houston Ritsuko Komaki

UNIT-II : POETRY

i. Stopping by Woods on a Snowy Evening Robert Frost
ii. Oft. in the Stilly Night Thomas Moore
iii. The Inchcape Rock Robert Southey
iv. To My True Friend Elizabeth Pinard
v. Fishing Gopa Ranjan Mishra

Unit-III : NON DETAILED STUDY

i. Three Questions Leo Tolstoy
ii. After Twenty Years O. Henry
iii. The Open Window Saki
iv. The Open and only Houdini Robert Lado
v. Childhood Jawaharlal Nehru
UNIT-IV : WRITING SKILLS

ii. Writing a Paragraph

iii. Developing Ideas into Paragraphs

iii. Writing Personal Letters and Notes

iv. Writing Applications, Official Letters and Business letters

v. Writing Telegrams, E-mails, Personal Advertisements, and Short Notices

vi. Using Graphics

UNIT-V : GRAMMER

ii. Countable and Uncountable Nouns

iii. Tense Patterns

iii. Modal Verbs

iv. Prepositions

v. The Imperatives

Book Prescribed : Invitation to English - 1,2,3 & 4, Published by Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar.

A. QUESTION PATTERN AND DISTRIBUTION OF MARKS

English +2, 1st years

Full Mark : 100

Time : 3 Hrs.

1. Reading Comprehension

(a) Prescribed Prose Pieces.
(5 questions to be answered, each carrying 2 marks) 10 marks

(b) Prescribed Poems

(5 questions to be answered each carrying 2 marks) 10 marks

(c) Prescribed Extensive Reading Texts

(2 questions to be answered carrying 5 marks each; only global inferential and evaluative questions to be set) 10 marks

2. Reading - related skills

(a) Vocabulary skills 5 marks

(b) Information Transfer 5 marks

(Converting Verbal information to non-verbal forms, such as diagrams, charts and tables)

(c) Reordering/sequencing sentences 5 marks

(d) Dictionary/Reference skills

(2 marks on using a dictionary, and 3 marks meanings of a word) 5 marks

(e) Cohesive Devices 5 marks

3. Writing skills

(a) Letter Writing (personal/official/commercial : Word limit : 150) 10 marks

(b) Description of object/event/process (Word limit : 150) 10 marks

(c) Slogan/telegram/caption writing (Word limit : 10) 5 marks

4. Grammar in context 10 marks

5. Translation/story-developing 10 marks
ENGLISH

2nd Year  No of Period : Yearly 80

UNIT-I : PROSE
i. My Greatest Olympic Prize  Jesse Owens
ii. On Examinations  Winston S. Churchill
iii. The Portrait of a Lady  Khushwant Singh
iv. The Magic of Teamwork  Sam Pitroda
v. Development of Polio Vaccines  Bonnie A.M. Okonek and Linda Morganstein

Unit -II : POETRY
i. Daffodils  William Wordsworth
ii. The Ballad of Father Gilligan  William Butler Yeats
iii. A Psalm of Life  Henry W. Longfellow
iv. Television  Roald Dahl
v. Money Madness  D.H. Lawrence

Unit -III : NON DETAILED STUDY
i. The Doctor’s Word  R.K. Narayan
ii. The Nightingale and the Rose  Oscar Wilde
iii. Mystery of the Missing Cap  Manoj Das
iv. The Monkey’s Paw  W.W. Jacobs
v. My Mother  Charlie Chaplin
vi. Stay Hungry. Stay Foolish  Steve Jobs
Unit - IV : WRITING SKILLS

i. Interpreting Graph, Charts, Tables and diagrams etc

ii. Reporting Events and Business Matters

iii. Note-making and summarizing

iv. Extended Writing

Unit - V : GRAMMAR

i. Revision of ‘Tense Pattern’s and ‘Modal Verbs’

ii. Conditionals

iii. The Passive

iv. Direct and Reported Speech

v. Interrogatives

vi. Phrasal Verbs

Book Prescribed : Invitation to English - 1,2,3 & 4, Published by Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar.

QUESTION PATTERN AND DISTRIBUTION OF MARKS

English +2, 2nd year

Full Mark : 100
Time : 3 Hrs.

1. Reading Comprehension

(a) Prescribed Prose Pieces.
   (5 questions to be answered, each carrying 2 marks) 10 marks

(b) Prescribed Poems
   (5 questions to be answered each carrying 2 marks) 10 marks

(c) Prescribed Extensive Reading Texts 10 marks
(2 questions to be answered carrying 5 marks each; only global inferential and evaluative questions to be set on a passage of about 250 words)

(d) Unseen Prose passage

(5 questions including inferential ones, carrying 2 marks each) 10 marks

2. Reading - related skills

(a) Vocabulary skills (to be tested on the unseen passage) 5 marks

(b) Information Transfer (70 words) 5 marks

(Converting non-Verbal information into verbal form)

(c) Dictionary/Reference skills 5 marks

3. Writing Skills

(a) Report Writing (200 words) 10 marks

(b) Guided Note making on a given passage 7 marks

(c) Summarizing on the same passage 8 marks

(d) Essay writing (250 words - on given outlines) 10 marks

4. Grammar in Context 10 marks

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M.I.L (Odia)

ଅନୁବଳେ ପାଇଁଯାର ଭାବ (ଏକଦ୍ବେବେଜ) ବର୍ଣ୍ଣନ

ପୂର୍ବ ସାଲାବ - ৩০

ବର୍ଣ୍ଣନ ସାଲାବ - ଅନୁବଳେବ ଏକଦ୍ବେବେ (ମାତ୍ୱ ୧) ।

ପୂର୍ବ ବଳ୍ବ ( ୨ଫୟ ବର୍ଣ୍ଣନ) ।

1. 'ବନ୍ୱ ବଳ୍ବ' - ଭାବନାମ ବଽଳିକେ

2. ଭାବନାମ ବଳବ ବଳବ - ପୁରସ୍କାର ବଽଳିକେ

3. ପୁରସ୍କାର ବଳବ - ଭାବନାମ ଏକଦ୍ବେ

4. ବଭାବନାମ - ଭାବନାମ ବଳବ

ବିଭାଗନ୍ତ୍ର ବଳବ - ବଳବ ( ୨ଫୟ ବର୍ଣ୍ଣନ)

1. ପୈଲେଣ ପୈଲେ - ଗ୍ରାଙ୍କ ବାଜ

2. ଗ୍ରାଙ୍କ ବାଜନା - କମାନ୍ତ ବାଜ

3. କମାନ୍ତ ବାଜନା - ଯାଷ୍ଣ୍ଟା

4. ଯାଷ୍ଣ୍ଟା ବାଜନା - ଭାବନାମ

ବିଭାଗନ୍ତ୍ର ବଳବ - ବଳବ
— 7. ବହୁ ଗାଢା ଗମନ ପ୍ରଭାବ ଲକ୍ଷ୍ୟ ଗମନ 
    ଗୁଣାଂକ ଗୁଣାଂକ 1 x 9 = 9 ଗମନ 
— 8. ବହୁ ଗାଢା ଗମନ ପ୍ରଭାବ ଲକ୍ଷ୍ୟ ଗମନ 
    ଗୁଣାଂକ ଗୁଣାଂକ 1 x 9 = 9 ଗମନ 
— 9. ବହୁ ଗାଢା ଗମନ ପ୍ରଭାବ ଲକ୍ଷ୍ୟ ଗମନ 
    ଗୁଣାଂକ ଗୁଣାଂକ 1 x 9 = 9 ଗମନ 

କୁମାର ଭାବର ସମାପ୍ତି (ଇକ ଘଟିକକ) 90 ଗମନ
1. ବହୁ ଗଟିକକ ପର୍ଯ୍ୟକ୍ତି
2. ବହୁ ଗଟିକକ ପର୍ଯ୍ୟକ୍ତି
3. ବହୁ ଗଟିକକ ପର୍ଯ୍ୟକ୍ତି

କୁମାର ଭାବର ସମାପ୍ତି (ଇକ ଘଟିକକ) 90 ଗମନ
1. ବହୁ ଗଟିକକ ପର୍ଯ୍ୟକ୍ତି (ଇ) ପର୍ଯ୍ୟକ୍ତି (ଇ) ପର୍ଯ୍ୟକ୍ତି
2. ବହୁ ଗଟିକକ ପର୍ଯ୍ୟକ୍ତି (ଇ) ପର୍ଯ୍ୟକ୍ତି
Arts Stream

(1) ଅତ୍ଯନ୍ତି ବୃକ୍ଷଧାରାକୁ ଧାରା କେନ ତଳାର ତୁକ୍ତ ପରିପାଳନ । ପୁପିତ ପତ୍ତି ରଜରୁ ହରିବିର ଦୃକ୍ଷ ଦୃକ୍ଷ

ତୁକ୍ତ ।

ତୁକ୍ତ ତୁକ୍ତ ୪ ୫ ୫ ତୁକ୍ତ ।

ଚ ଲ କେନ ଅବାଧାରଣ (୨୦ ତିକାଣ) ୨୦ ଦମ୍ବ

(2) ପୁପିତ

(3) ବୃକ୍ଷଧାରା

(4) ପୁପିତାକ୍ଷ

(5) ତୁକ୍ତ

(6) ବୃକ୍ଷଧାରା

ତୁକ୍ତାକ୍ଷ ପ୍ରାକାଶା - ବୃକ୍ଷଧାରା, ବୃକ୍ଷଧାରା, ବୃକ୍ଷଧାରା, ବୃକ୍ଷଧାରା

- ତୁକ୍ତାକ୍ଷ ପ୍ରାକାଶା ପ୍ରାକାଶା ପ୍ରାକାଶା । ପ୍ରାକାଶାପ୍ରାକାଶା ପ୍ରାକାଶା ପ୍ରାକାଶା ଦୃକ୍ଷ ଦୃକ୍ଷ ଦୃକ୍ଷ ଦୃକ୍ଷ ।

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Arts Stream

Gjûe cìfý 2 x 2 = 4  
Gjûe cìfý 3 x 1 = 3  
Gjûe cìfý 5  
ZéZúd GKK (Unit - II) - (Unit (5  

1. Gjûe cìfý 1: 5 x 5 = 25  
Gjûe cìfý 1: 3 x 3 = 9  
Gjûe cìfý 2: 2 x 2 = 4  
Gjûe cìfý 3: 1 x 3 = 3  
Gjûe cìfý 4: 2 x 3 = 6  
Gjûe cìfý 5: 5 x 1 = 5  

1. 13  
2. 2  
3. 3  
4. 4  
5. 5  

Gjûe cìfý 1: 1 x 5 = 5  
Gjûe cìfý 2: 1 x 2 = 2  
Gjûe cìfý 3: 1 x 1 = 1  

Gjûe cìfý 1: 1 x 2 = 2  
Gjûe cìfý 2: 1 x 3 = 3  
Gjûe cìfý 3: 1 x 5 = 5  

Gjûe cìfý 1: 2 x 5 = 10  
Gjûe cìfý 2: 2 x 2 = 4  
Gjûe cìfý 3: 2 x 1 = 2  
Gjûe cìfý 4: 2 x 3 = 6  
Gjûe cìfý 5: 2 x 5 = 10  

Gjûe cìfý 1: 3 x 5 = 15  
Gjûe cìfý 2: 3 x 2 = 6  
Gjûe cìfý 3: 3 x 1 = 3  
Gjûe cìfý 4: 3 x 3 = 9  
Gjûe cìfý 5: 3 x 5 = 15  

Gjûe cìfý 1: 4 x 5 = 20  
Gjûe cìfý 2: 4 x 2 = 8  
Gjûe cìfý 3: 4 x 1 = 4  
Gjûe cìfý 4: 4 x 3 = 12  
Gjûe cìfý 5: 4 x 5 = 20  

Gjûe cìfý 1: 5 x 5 = 25  
Gjûe cìfý 2: 5 x 2 = 10  
Gjûe cìfý 3: 5 x 1 = 5  
Gjûe cìfý 4: 5 x 3 = 15  
Gjûe cìfý 5: 5 x 5 = 25  

Gjûe cìfý 1: 1 x 5 = 5  
Gjûe cìfý 2: 1 x 2 = 2  
Gjûe cìfý 3: 1 x 1 = 1  
Gjûe cìfý 4: 1 x 3 = 3  
Gjûe cìfý 5: 1 x 5 = 5  

Gjûe cìfý 1: 2 x 5 = 10  
Gjûe cìfý 2: 2 x 2 = 4  
Gjûe cìfý 3: 2 x 1 = 2  
Gjûe cìfý 4: 2 x 3 = 6  
Gjûe cìfý 5: 2 x 5 = 10  

Gjûe cìfý 1: 3 x 5 = 15  
Gjûe cìfý 2: 3 x 2 = 6  
Gjûe cìfý 3: 3 x 1 = 3  
Gjûe cìfý 4: 3 x 3 = 9  
Gjûe cìfý 5: 3 x 5 = 15  

Gjûe cìfý 1: 4 x 5 = 20  
Gjûe cìfý 2: 4 x 2 = 8  
Gjûe cìfý 3: 4 x 1 = 4  
Gjûe cìfý 4: 4 x 3 = 12  
Gjûe cìfý 5: 4 x 5 = 20  

Gjûe cìfý 1: 5 x 5 = 25  
Gjûe cìfý 2: 5 x 2 = 10  
Gjûe cìfý 3: 5 x 1 = 5  
Gjûe cìfý 4: 5 x 3 = 15  
Gjûe cìfý 5: 5 x 5 = 25  

13
Arts Stream

14

- 7 x 9 = 63

- 9 x 8 = 72

- 8 x 7 = 56

- 6 x 6 = 36

- 9 x 9 = 81

- 7 x 7 = 49

- 6 x 6 = 36

- 5 x 5 = 25

- 4 x 4 = 16

- 3 x 3 = 9

- 2 x 2 = 4

- 1 x 1 = 1

Unit - IV

1. যদি এক নলে কৃষি চুরু করি। তখন ভোজনের অভাব দূর করি।

2. একটি নলে ২০ কৃষি করি। তখন ভোজনের অভাব দূর করি।

3. যদি তিনি এক নলে কৃষি করেন, তখন ভোজনের অভাব দূর করেন।

4. যদি চারটি নলে শুধু একটি করি, তখন ভোজনের অভাব দূর করি।

5. যদি দুইটি নলে চারটি করি, তখন ভোজনের অভাব দূর করি।

Unit - V

1. যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

2. যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

3. যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

4. যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

5. যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

- যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

- যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

- যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

- যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

- যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।

- যদি শিক্ষা ও শাক করা হয়, তখন অর্থনীতি উন্নতি হবে।
M.I.L (HINDI)

QUESTION PATTERN AND DISTRIBUTION OF MARKS

Paper - 1

GROUP - A

(OBJECTIVE - TYPE)

1. Multiple choice/one word
   Answer type forty Questions from Unit I, II, III & IV
   (Forty Questions may be asked) 1 x 40 = 40

Group - B

(VERY SHORT ANSWER TYPE)

2. Very short one or two sentences
   Answer type Nine Questions from Unit - I, III & IV
   (Twelve Questions may be asked) 2 x 9 = 18

Group - C

(SHORT ANSWER TYPE)

3. Short four to five sentences
   Answer type four Questions from Unit - III & IV
   (Eight Questions may be asked) 3 x 4 = 12

Group - D

(LONG ANSWER TYPE)

4. Long ten to twelve sentences
   Answer type six Questions from Unit - III , IV & V
   (Ten Questions may be asked) 5 x 6 = 30
M.I.L (HINDI) - I
First Year
DETAILED SYLLABUS

Time - 3 Hours
Full Marks - 100

पाठ्य पुस्तक : अमृत भारती, भाग - 1
Published by Odisha State Bureau of Textbook Preparation and Production.

Unit - I : अपठित गद्यांश / काव्यांश:

(1) अपठित गद्यांश - बोध (गद्यांश पर आधारित बोध, प्रयोग, रचनान्वय, शीर्षक पर आधारित सबूतारी प्रश्न -

(2) काव्यांश पर आधारित अति सबूतारी प्रश्न -

Unit - II : काव्यांशी हिंदी और रचनावृत्त लेखन
1. संश्लेषण
2. निबंध लेखन
3. व्याकरण
   i) उपसर्ग और प्रत्यय
   ii) किया
   iii) काल

Unit - III : काव्य भाग
i) कबीरदास - दोहे
ii) सूरदास - बिनय तथा बाल लीला
iii) मीरा - पद
iv) बिहारी - दोहू
v) सुरभिनान्दन पंत - भारतमाता
vi) नागराजुन - बहुत दिनों के बाद
vii) अरों - हीरोशिमा
viii) दुष्कुमार - हो गई है शीर पर्वत - सी
ix) केदारनाथ सिंह - रोटी

प्रश्न -
i) विकल्प चयन -
ii) एक वाक्य में उत्तर -
iii) दो वाक्यों में उत्तर -
iv) तीन वाक्यों में उत्तर -
v) दीर्घ उत्तर -

Unit - IV : गद्य भाग
i) प्रेमचंद - जीवन मे साहित्य का स्थान
g) जैनेन्द्र कुमार - बाजार दर्शन
iii) रामधारी सिंह ‘दिनकर’ - ईर्ष्या, तु न गई मेरे मन से
iv) रामबिलास शर्मा - अतिधि प्रश्न - पद्ध पाठ के अनुसार

Unit - V : कहानी
i) प्रेमचंद - बूढ़ीकाकी
ii) जयशंकर प्रसाद - ममता
iii) भगवतीचरण यर्म - वांचवसरहब का कूड़ा
iv) उदयप्रकाश - अपराध

प्रश्न - दौरान उत्तरप्रदेश 2 प्रश्न

QUESTION PATTERN AND DISTRIBUTION OF MARKS
M.I.L. - HINDI
Paper - II
Group - A
(Objective Type)

1. Multiple choice / one word
Answer type forty Question from I, II, III & IV
(Forty Questions may be asked) 1 x 40 = 40

Group - B
(VERY SHORT ANSWER TYPE)

2. Very short one or two sentences
Answer type Nine Questions from Unit - I, III & IV
(Twelve Questions may be asked) 2 x 9 = 18

Group - C
(SHORT ANSWER TYPE)

3. Short four to five sentences
Answer type four Questions from Unit - III & IV
(Eight Questions may be asked) 3 x 4 = 12

Group - D
(LONG ANSWER TYPE)

4. Long ten to twelve sentences
Answer type six Questions from Unit - III , IV & V
(Ten Questions may be asked) 5 x 6 = 30
M.I.L (HINDI) - II
Second Year
DETAILED SYLLABUS

Time - 3 Hours
Full Marks - 100

पाठ्य पुस्तक : अमृत भारती, भाग - 2
Published by Odisha State Bureau of Textbook Preparation and Production.

Unit - I : अप्रत्येक अंश । गद्य एवं पद्य
(15)
i) गद्यांश - बोध, प्रयोग, रचना, शीर्षक आदि पर लघूतम्क प्रश्न
i) पद्यांश - बोध, अर्थ आदि पर लघूतम्क प्रश्न

Unit - II
(क) प्रयोजनमूलक हिंदी और रचना :
i) पत्रिका
ii) पत्र - लेखन

(ख) व्याकरण
i) लिख
ii) वचन
iii) संज्ञा - विशेषण के प्रयोग

Unit - III :
काव्य :

प्रश्न :
i) रहीम - दोहे विकल्प स्पष्ट
ii) तुलसी दास - राम-चरित मिलन एक बावट मा उत्तर
iii) मैथिलीशृंग गुप्त - नर हो, न निषेध करो मन को दो बावटों मे उत्तर
d) निराला - बीमा बादल नहीं, बादल एक उत्तर
e) विभाग - अभिप्रेत तीन बावटों मे उत्तर
f) सुन्दर कुमारी चौहान - संस्था की रात्रि दीर्घ उत्तर
g) मुख्य बोध - पूजनीवादी समाज के प्रदीptि
h) मणि शरद - तात्तक की दुनिया

Unit - IV : गद्य पाठ :
i) बालकृष्ण भट्ट - आत्माविभारति
ii) रामचन्द्र सूकल - उल्साह
t) शारद जोशी - दुम जाओगे, अतिथि
iv) बच्चेदेव पाल - एवरेस्ट : मेरी शिखर यात्रा

Unit - V : पद्यपाठ के अनुरूप
The present syllabus in Bengali is designed to improve the Bengali language and knowledge in Bengali literature and Indian Culture. To strengthen the national integrity a profound sense of patriotism and nationalism tempered with the spirit of "Vasundhaiva Kutambakam.

The Syllabus has been divided into two parts/The first part is meant for the students of XI class and the examination of the first part shall be conducted at the end of the XI Class at College/ HS School level.

The Second part of the syllabus is meant for the students of XII Class and the examination of this part shall be conducted at the end of XII Class at Council level.

**M.I.L. (BENGALI)**

*(Compulsory)*

**First Year**

**LANGUAGE - 50 MARKS**

**UNIT - I** Grammar = 30 Marks

1. Samas (Dawanda Samas, Bahubrihi and Karmadharayan) 2 x 5 = 10
2. Synonyn / Antonym (with alternatives) 2 x 5 = 10
3. Proverbs and Indioms (with alternatives) - 2 x 5 = 10

**UNIT - II** Amplification (Bhabsamprasaran) (2) 5 x 2 = 10

**UNIT - III** (Composition) - Letter writing = 10

(Personal letters Friends and Parents with alternatives)

**LITERATURE - 50 MARKS**

**UNIT - IV** Text book Prescribed

1. Prose one question one explanation 15= Q + 2 + 2 + 2 + 4  Expl - 5
2. Poetry - one question on explanation 15 = Q = 2 + 2 + 2 + 4  Expl = 5

(Alternatives will be given)

**UNIT - V** Novel (one question) 5 + 5 = 10

**UNIT - VI** Essay (one out of three) 10
UNIT - I

Books Prescribed:

PROSE:

Uchha Madhyamik Bangia Sankalan. (Gadya) for Class XI & XII. Published by Paschim Banga Uchha Madhyamik Siksha Sansad, Viswa Varati.

The following pieces are to be studied in the first year:

2. Sitar Banabas - Iswarchandra Vidyasagar.
3. Bisarjan - Bankimchandra Chattopadhya

UNIT - II

POETRY:

Madhukari - Kalidas Ray

(Published by Orient Book Company, Kolkata -12)

The following pieces are to be studied in the first year:-

1. Srigoura Chandra - Gobinda das kabiraj.
2. Bhabollas - Vidyapati
3. Premer Tulana - Durija Chandidas
4. Avigir Akshep - Gyandas

UNIT - III

NOVEL - (Non-Detailed)

Srikanta - Sarat Chandra Chattopadhayay

(Chapter -1 to 7 (one to seven) to be read in the first year)

UNIT - IV

Grammar

Proverbs and Indioms, Sentence and word formation Annonyms and Synonyms.

Distribution of Marks of Unit wise :-

Unit - I Prose

A. Two short Answer type questions with alternatives Q 1 - 2+2+2+4 = 10
B. One explanation with alternatives Expl - 5
C. Five very Short Answer type questions with alternative
Unit - II  Poetry
A. Two short Answer type Questions with alternative- 2 x 5 =10
B. One explanation with alternative
C. Five very short answer type questions with alternative

Unit - III  Novel (Non detail) -
A. Four short answer type Question with alternative Q 4 x 10 = 40

Unit - IV  Grammar & Essay -
A. Grammar objective type 10 Questions with alternative containing 2 marks 5 =10
B. Essay/ One essay with three alternatives - 10

M.I.L. (Bengali)
SECOND YEAR

The examination shall be conducted at the end of XII Class at Council level.

Books Prescribed:
UNIT - I  PROSE :
Uchha Madhyamik Bangia Sankal”an (Gadya) for Class XI & XII.
Published by Paschim Banga Uchha Madhyamik Siksha Sansad, Viswa Varati.
The following pieces are to be studied in the Second year :-
1. Bangia Bhasa - Haraprasad Sastri
2. Tota Kahini - Rabindranath Tagore
3. Naisha Avijaa - Sarat Ch. Chattopadhayay
4. Aranyak - Bibhuti Bhusan Bandopadhay

UNIT - II
Madhukari - Kalidas Ray
(Published by Orient Book Company, Kolkata -12)

Pieces to be Studied:
1. Baisakh - Oebendra Nath Sen
2. Lohar Byatha - Jatindra Nath Sengupta
3. Swarga Haite Viday - Rabindra nath Tagore
4. Rupai - Jasimuddin

UNTT - III  NOVEL - (Non-detailed Study)
Pather Panchali - Bibhuti Bhusan Bandhopadhyaya
(Chapter (8 to 12) eight to twelve to be studied in the Second year.)

UNIT - IV  Grammar and Essay
(i) Pada Paribartan
(ii) Somas
(iii) Somo chharita-Bhinna Thark Sobda and its application in sentences.

*Distribution of marks of unit wise* -

There shall be four units.

**Unit - I Prose**
- A. Two short Answer type questions with alternatives -
- B. One explanation with alternatives -
- C. Five very Short Answer type questions with alternative-

**Unit - II Poetry**
- A. Two short Answer type Questions with alternative
- B. One explanation with alternative
- C. Five very short answer type questions with alternative

**Unit - III Novel (Non detail)** -
- A. Four short answer type Question with alternative

**Unit-IV Grammar & Essay**-
- A. Grammar objective type 1.0 Questions with alternative containing. 2 marks each
- B. Essay/ One essay with three alternatives -

**M.I.L. (BENGALI)**

**2ND YEAR,  TIME 3 HRS.  MAXIMUM MARKS = 100**

**LANGUAGE = 50 MARKS**

**UNIT - I Grammar = 30 Marks**
1. Samas (Dawanda Samas, Bahubrihi 2 x 5 = 10 and Karmadharayan
2. Synonym / Antonym (with alternatives) 2 x 5 10
3. Proverbs and Indioms (with alternatives) - 2 x 5 = 10

**UNIT - II Amplification (Bhabnamprasaran) (2) 5 x 2 = 10**

**UNIT - III (Composition) - Letter writing = 10**
(Personal letters Friends and Parents with alternatives)

**LITERATURE - 50 MARKS**

**UNIT - IV Text book Prescribed**
1. Prose one question one explanation 15= Q + 2 + 2 + 2 + 4  Expl - 5
2. Poetry - one question on explanation 15 = Q = 2 + 2 + 2 + 4  Expl = 5
(Alternatives will be given)
UNIT - V  Novel (one question) 5 + 5 = 10
UNIT - VI  Essay (one out of three) 10
UNIT - IV  Grammar
   Proverbs and idioms, Sentence and word formation Anonyms and Synonyms.

Distribution of Marks of Unit wise :-
Unit - I  Prose
   A. Two short Answer type questions with alternatives.
   B. One explanation with alternatives
   C. Five very Short Answer types questions with alternative

Unit - II  Poetry
   A. Two short Answer type Questions with alternative
   B. One explanation with alternative
   C. Five very Short Answer type questions with alternative

Unit - III  Novel (Non detail)
   A. Four short answer type Question with alternative

Unit - IV  Grammar & Essay
   A. Grammar objective type 10 Questions with alternative containing
   B. Essay/ One essay with three alternatives

M.I.L (Bengali)
SECOND YEAR
F.M. - 100
Time - 3 hrs.

The examination shall be conducted at the end of XII Class at Council level.

Books Prescribed:
UNIT-I  PROSE:
Uchha Madhyamik Bangia Sankal’an (Gadya) for Class XI & XII.
Published by Paschim Banga Uchha Madhyamik Siksha Sansad, Viswa Varati.
The following pieces are to be studied in the Second year :-
1. Bangia Bhasa - Haraprasad Sastri
2. Tota Kahini - Rabindranath Tagore
3. Naisha Avijaa - Sarat Ch. Chattopadhayay
4. Aranyak - Bibhuti Bhusan Bandopadhay
UNIT - II  POETRY :

Madhukari - Kalidas Ray  
(Published by Orient Book Company, Kolkata -12)

Pieces to be Studied:
1. Baisakh - Oebendra Nath Sen
2. Lohar Byatha - Jatindra Nath Sengupta
3. Swarga Haite Viday - Rabindra nath Tagore
4. Rupai - Jasimuddin

M.I.L (TELUGU)
FIRST YEAR
(Compulsory)

Time 3 hours  Full Marks 100

There shall be one paper carrying 100 marks of 3 hours duration consisting of four units. The examination shall be conducted at the end of First Year of college/H.S. School.

DISTRIBUTION OF MARKS

Group-A (Objective Type)
1. Thirty very short questions (from unit I, II & III) 30x1 =30 Marks
2. Ten very short questions (from unit IV-A) 10x1=10 Marks

Group-B (short Type Questions)
3. Six short questions (from Unit!, II & III) 6x2=12 Marks
4. Four explanation (only Bhavartha from unit I & II) 4x2=8 Marks
5. Five short questions (from Unit IV-A). 5x2=10Marks

Group -C (Long Type Questions)
6. Three long questions with alternative 3x7=21 Marks
7. Letter writing/essay with alternative(from unit IV-B) 1x9=9 Marks

TOTAL  -  100 marks

TOPICS TO BE STUDIED :

UNIT - I  POETRY:  (20 periods)

1. Ekalavyudu - Nannaya Bhattu
2. Balivamana Samvadamu - Bammera Potana
3. Subhashitamulu - Enugu Lakshmana Kavi
4. Tokachukka - Gurajada Apparao
5. Gongali Purugulu - Balagangadhara Tilak
6. Pushpa Vilapamu - Jandhyala Papayya Sastri

UNIT-II PROSE: (20 periods)
1. MitraLabhamu - Paravastu Chtnnayasuri
2. Vemana - Dr. G.V.Krishna Rao
3. C.P. Brown Sahitya Seva - Prof. K. Sarvothama Rao
4. AIDS - Dr. Singupuram Narayana Rao
5. Teiugu Patrikala Purva Rangam - Namala Visveswara Rao

UNIT - III NON - DETAIL: (16 periods)

UNIT - IV (A) GRAMMER: (16 periods)

Vibhaktulu - Pratyayalu, Prakruti -Vikrutulu, Vyatireka Padamulu,
Paryaya Padamulu, Jateeyalu - Padabandhalu

B) WRITING / GENERAL ESSAY: (08 periods)

BOOKS PRESCRIBED:
1. Poetry & Prose: SAHITEE VIPANCHI - By Dr. Singupuram Narayana Rao
2. Non-Detail: RAJA RAJA PRSASTI - By Prof. S. Gangappa
3. Grammar: VYAKARANA PARIJATAMU - By Dr. Singupuram Narayana Rao

M.I.L (TELUGU)
SECOND YEAR
(Compulsory)

Time 3 hours  No of Periods: Weekly-5   Full Marks 100  Yearly 80

There shall be one paper carrying 100 marks of 3 hours duration consisting of four units. The examination shall be conducted at the end of Second Year at Council level.

DISTRIBUTION OF MARKS

Group-A (Objective Type)
1. Thirty very short questions (from unit), II & III) 30x1 =30 Marks
2. Ten very short questions (from unit IV-A) 10x1=10 Marks
Group-B (short Type Questions)

3. Six short questions (from Unit I, II & III)  
   6x2=12 Marks
4. Four explanations (only Bhavartha from unit I & II)  
   4x2=8 Marks
5. Five short questions (from Unit IV-A)  
   5x2=10 Marks

Group -C (Long Type Questions)

6. Three long questions with alternative  
   3x7=21 Marks
7. Re-Translation (from unit iv-B)  
   1x9=9 Marks

TOTAL  
100 marks

TOPICS TO BE STUDIED:

UNIT - I POETRY : (20 periods)
1. Sanjaya Rayabharamu - Tikkana Somayaji
2. Hanumatsandesamu - Atukuri Molla
3. Piradausi.Lekha - Gurram Jashuwa
4. Manchi Mutyala Saralu - Sri Sri
5. Jateeyata - Dr. Nagabhairava Koteswara Rao
6. Panjaramlo Amma - Dr. Bhusurapalli Venkateswarlu

UNIT - II PROSE: (20 periods)
1. MitraBhedamu - Paravastu Chinnayasuri
2. Rayaprolu streevada drukpadham - Prof K.Yadagiri
3. Ahalya Sankrandanam Patra Chitrana - Dr. Nagabhairava Adinarayana
4. Veyipadagalu Samajika Drukpadham - Dr. Singupuram Nayayana Rao
5. Goutama Budhudu - Dr.- V. Rajagopala Chakravarty

UNIT - III NON-DETAIL: (16 periods)
Rudrama Devi - Smt. P.B. Kausalya

UNIT - IV A) GRAMMAR : (16 periods)
Paribhashika padamulu
Chandssu : Utpalama, Champakamaia, Sardhulamu, Mathebhamu, Ataveladi, Tetageeti
Aiankaramuiu : Upama, Rupaka, Utpreksha, Ardhantaranyasa, Atisyokti

B) RE-TRANSLATION (English to Telugu) :( 08 periods)

BOOKS PRESCRIBED :
1) Poetry & Prose : Sahitee Mandaram  
   - By Dr. Singupuram Narayana Rao
2) Non-Detail : Rudramadevi  
   - By Smt. P.B. Kausalya
3) Grammar : Vyakarana Parijatamu  
   - By Dr. Singupuram Narayana Rao
M.I.L. (URDU)
(Compulsory)
FIRST YEAR
Total Class-80

Time-3hrs.  F.M.-100

There Shall be one Paper carrying 100 marks consisting of 3 (three) groups and duration of examination will be of 3 (three) hours at the college / H.S.E level.

Distribution of marks

GROUP - A

30 MARKS

1. **Objective type questions from all units Prose, Poetry and non-detailed**
   A. Five objective type questions from prose 1x5 = 5 Marks
   B. Five objective type questions from poetry 1x5 = 5 Marks
   C. Five objective type questions from Non-detailed 1x5 = 5 Marks
   Total 15 Marks

**Grammar**

2. A. One word answer five questions 1x5 = 5 Marks
   B. Very short answer five questions 1x5 = 5 Marks
   C. Fill up the Blanks five questions 1x5 = 5 Marks
   Total 15 Marks

GROUP - B

40 MARKS

3. **Answer within two/three sentences**
   A. Prose-Six questions to be answered out of eight questions 6x2 = 12 Marks
   B. Poetry-Five questions to be answered out of seven questions 5x2 = 10 Marks
   Total = 22 Marks

4. **Answer within six sentences**
   A. Prose- Three questions to be answered out of four questions. 3x3 = 09 Marks
   B. Ghazaliyat- Three Ashaar explanation to be answered out of four Ashaar. 3 x 3 = 09 Marks
   Total = 18 Marks

GROUP-B

30 MARKS

A. Prose : One long answer type question about 150 words with an alternative from prose portion. 7.5 Marks
B. Poetry : One long answer type question about 150 words with an alternative from poetry. 7.5 Marks
C. Non detailed - on long answer type question about 150 words with an alternative from non-detailed portion. 7.5 Marks
D. Letter / Application : One Letter Writing / application writing about 100 words. 7.5 Marks

Books Prescribed :

**JADID ADAS PARE**
Recommended Book “JADID ADAB PARE”,
Published by Odisha State Bureau of Text Book preparation and Production, BBSR.
Unit - I
20 Classes

1. Prose Portion :
   Portions to be studied :
   i. Qaumi Hamdardee - Altaf Hossain Mali
   ii. Sair Pahle Darwesh Ki - Mir Amman
   iii. Mitti Ka Tel - Hasan Nezami.
   iv. Bahadur Shah-Do Ghaz Zamien - Dr. Mahfuzul Hassan

Unit - II
24 Classes

2. (a) Poetry Portion :
   Portions to be studied :
   i. Aata Dal - Nazir.
   ii. Tasweere-e-Dard - Iqbal.
   iii. Jogan Aur Chandni Raat - Mir Hasan
   iv. Naqjawanon-se-khetab - Josh

(b) Ghazaliyat Portions :

Unit - III
16 Classes

3. Non detailed studies :
   Any one of the following books only first half of the books in the 1st year.
   I. TAUBATUN NASOOH
      by : Deputy Nazeer Ahemad
      Pulisher: Maktab-E-Jamiya LTD.
      Jamia Nagar, New Delhi -110025
   II. MUSADDAS-E-HALI
      by : Altaf Husain Mali
      Pulisher: Educational Book House Aligarh (UP)

Unit - IV
5 Classes

4. Letter Writing :
   There shall be letter Writing /Application Writing

5. Grammar:
   URDU ZOBAN-O-QUWAID PART-1
   by : Shafi Ahmad Siddiqui
   Portions to be studied :
   i. Tazkir-o-Tsrees
   ii. Ghalat Jumle Aur Unki Islah
   iii. Mutashabeh Alfag

SECOND YEAR
Total Clss-80

Time- 3hrs
F.M.-100

There Shall be one Paper carrying 100 marks consisting of 3 (three) groups and duration
of examination will be of 3 (three) hours at the C.H.S.E. / H.S.E Level
Distribution of Marks

GROUP-A

30 MARKS

Very Short type Answer.

1. **Objective type questions from all units Prose, Poetry and non-detailed**
   A. Five objective type questions from prose \(1 \times 5 = 5\) Marks
   B. Five objective type questions from poetry \(1 \times 5 = 5\) Marks
   C. Five objective type questions from Non-detailed \(1 \times 5 = 5\) Marks
   \[\text{Total} = 15\] Marks

Grammar

2. A. One word answer five questions \(1 \times 5 = 5\) Marks
    B. Very short answer five questions \(1 \times 5 = 5\) Marks
    C. Fill up the Blanks five questions \(1 \times 5 = 5\) Marks
    \[\text{Total} = 15\] Marks

GROUP-B

40 MARKS

Short Type Answer

3. **Answer within two/three sentences**
   A. Comprehension of an unseen passage of about 150 words. Followed by seven questions to answered out of nine question. \(7 \times 2 = 14\) Marks
   B. Prose : Four questions to be answered out of six questions \(4 \times 2 = 08\) Marks
   \[\text{Total} = 22\] Marks

4. **Answer within six sentences**
   A. Prose : Three questions to be answered out of four questions. \(3 \times 3 = 09\) Marks
   B. Ghazaliyat: Three Ashaar explanation to be answered out of four Ashaar. \(3 \times 3 = 09\) Marks
   \[\text{Total} = 18\] Marks

GROUP-C

30 MARKS

Long Type Answer

5. A. Prose : One long answer type question about 150 words with an alternative from prose portion. \(7.5\) Marks
    B. Poetry : One long answer type question about 150 words with an alternative from poetry. \(7.5\) Marks
    C. Non detailed - on long answer type question about 150 words with an alternative from non-detailed portion. \(7.5\) Marks
    D. Essay : One long answer type question about 150 words with three alternatives. \(7.5\) Marks
Books Prescribed:
JADID ADAB PARE
Recommended Book “JADID ADAB PARE”, PART-II
Published by Odisha State Bureau of Text Book preparation and Production, BBSR.

Unit - I
1. Prose Portions:
   Portions to be studied:
   i. Hindu Musalman Eik Qaum Hain - Sir Sayed Ahmad Khan
   iii. Ustad ki Talash - Farhatullah Baig
   iv. Diary - Abuzar Usmani

Unit - II
2. (a) Poetry Portions:
   Portions to be studied:
   i. Shamma Parwana — Iqbal.
   ii. Wadei-e -Ganga Mein ek Raat- Akhtar Shirani
   iii. Mera Safar- Ali sardar Jafri
   iv. Tajmahalki Pahli Jhalak Per- Karamat Ali Karamat

   (b) Ghazaliyat and Rubaiyat Portions:
   i. Dagh, ii. Shad, iii. Hasrat, iv. Jami

Unit - III
3. Non detailed studies:
   Any one of the following books only last half of the books in the 2nd year.
   i. TAUBATUN NASOOH
      by: Deputy Nazeer Ahemad
      Publisher: Maktab-E-Jamiya LTD.
      Jamia Nagar, New Delhi -110025
   ii. MUSADDAS -E -HALI
      by: Altaf Husain Hali
      Publisher: Educational Book House Aligarh (UP)

Unit - IV
4. (a) Essay:
   There shall be one general Essay with three alternatives

   (b) Comprehension

5. Grammar: I
   URDU ZOBAN-O-QUWAID PART-1
   by : Shafi Ahmad Siddiqui
   Portions to be studied:
   i. Wahid-O-Jama
   ii. Mutazad Alfaz
   iii. Mahaware
M.I.L. (Sanskrit)

FIST YEAR

Total Classes - 80

There shall be one paper carrying 100 marks. The duration of examination will be of 3 (three) hours.

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Classes required</th>
<th>Marks allotted</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Reading Skill</td>
<td>20</td>
</tr>
<tr>
<td>b) Writing Skill</td>
<td>25</td>
</tr>
<tr>
<td>c) Literary Text</td>
<td>35</td>
</tr>
<tr>
<td>Total</td>
<td>80 Classes</td>
</tr>
</tbody>
</table>

100 Marks

PORTIONS TO BE STUDIED

a) Prose - Sanskrutaprabha (Gadyabhagah)

The following prose pieces from the above mentioned book are to be studied:

1) मनुस्याख्यानम (Manumatsyakhyanam)
2) चतुरशूगाल: (Chaturasrugalah)
3) संस्कृते तिन नागिन्त (Sanskra kim nasti)
4) जाबाल: सत्यकाम: (Jabalah Satyakamah)

b) Poetry - Samskrtaaprabha (Podyabhagah)

The following poetry pieces from the above book are to be studied:

1) सुभाषितावली (Subhasitavali)
2) भाति मे भारतम् (Bhati me Bharatam)
3) वसन्त: (Vasantah)

c) Grammar from the Prose and Poetry

1) संभ - संभिविच्छेद Sandhi and Sandhi Viccheda
2) कारकविभक्ति (Karak Vibhakti)
3) प्रकृतिप्रत्यय (Prakrti Pratyaya)

d) Topics from the Grammar text

1) श्रीप्रत्यय Stripratyaya
2) समास Samasa
3) एकपदीकरण Formation of single word from Stripratyaya and Samasa
e) **Translation and Comprehension**

1) Comprehension - Sanskrit Passage from the comprehension passages of संस्कृतम् प्रवचन, Part - I

2) Translation into Odia/English from prose and Poetry, translation from Sanskrit to Odia/English.

f) **Writing Skill**

The art of writing - letters, Applications, Textual Explanation, Textual long questions.

**Books Recommended**

1) Sanskritaprabha, Part - I - संस्कृतप्रवचन - भाग 1:
   Published by Odisha State Bureau of Textbook Preparation and Production.

2) Vyakaran - darpants - व्याकरण दर्पण:
   Published by Odisha State Bureau of Textbook Preparation and Production.

**M.I.L. (Sanskrit)**

**FIST YEAR**

1. **Reading Skill**

   The art of writing - letters, Applications, Textual Explanation, Textual long questions.

   **Books Recommended**

   1) Sanskritaprabha, Part - I - संस्कृतप्रवचन - प्रवचनांक:
      Published by Odisha State Bureau of Textbook Preparation and Production.

   2) Vyakaran - darpants - व्याकरण दर्पण:
      Published by Odisha State Bureau of Textbook Preparation and Production.

   **M.I.L. (Sanskrit)**

   **FIST YEAR**

1. **Reading Skill** - 20 Marks

   i) Multiple choice questions from Prose & Poetry (3+2) 1 x 5 = 5 Marks

   ii) Very short questions from Prose & Poetry (2 + 3) 1 x 5 = 5 Marks

   iii) Short questions from Prose & Poetry (1 + 1) 2 x 2 = 4 Marks

   (out of 04 questions)

   iv) Two questions from prose & poetry (1+1) 3 x 2 = 6 Marks

   (out of 4 questions)

2. **Writing Skill**

   i) Very short questions from Grammar Text - 10 Marks

      a) Stripratyaya - 1 x 3 = 3 Marks

      b) Samasa - 1 x 4 = 4 Marks

      c) Ekapadikarana - 1 x 3 = 3 Marks

   ii) Translation of verse into Odia / English from Poetry Text - 4 x 1 = 4 Marks (out of 02 verses)

   iii) Translation of one passage into Odia/English from Prose Text - 6 x 1 = 6 Marks

   iv) Translation of an Unseen Sanskrit Passage to Odia/English from given Passage - 1 No. 10 x 1 = 10 Marks

   v) Application / Letter writing - 1 No. - 10 x 1 = 10 Marks (out of 2 questions)

3. **Literary Text** - 40 Marks

   i) Grammar from Prose : (Sandhiviccheda) - 1 x 4 = 4 Marks

   ii) Grammar from Poetry :
Karaka-Vibhakti - 1 x 3 = 3 Marks  
Prakrati - Pratyaya - 1 x 3 = 3 Marks  

iii) Two questions from Prose & Poetry (1+1)  
6 x 2 = 12 Marks (with in 30 words) (out of 4 questions)  

iv) Explanation of Verse from Poetry text (one)  
08 x 1 = 08 Marks (out of two verses)  

v) Comprehension (one passage) from text (1 - 8) 2 x 5 = 10 Marks  

N.B.: Answer in Sanskrit are to be written either in Odia script or in Devanagari script.

**M.I.L. (Sanskrit)**  
**SECOND YEAR**  
There shall be one paper carrying 100 Marks. The duration of Examination will be of three hours.

**COURSE STRUCTURE**  

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<tr>
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<td>25 40</td>
</tr>
<tr>
<td>c) Literary Text</td>
<td>35 40</td>
</tr>
<tr>
<td>Total</td>
<td>80 Classes 100 Marks</td>
</tr>
</tbody>
</table>

**PORTIONS TO BE STUDIED**  

a) **Prose - Sanskrutaprabha (Gadyabhagah)**  
संस्कृतप्रभा - गद्यभाग:  
The following prose pieces from the above mentioned book are to be studied  
1) कपोतलुब्धकथा (Kapotalubdhakakatha)  
2) सुधारस्य वनमहारसारस्त्रकामाणि (Susrutasya Yantrakarmasastrakarmini)  
3) गुणिगुणहैनविवेकः (Gunigunahinavivekah)  
4) रामायणविविधशास्त्रगमनम् (Ramatapovanabhigamanam)

b) **Poetry - Samskrtaprabha (Podyabhagah)**  
संस्कृतप्रभा (पद्यभाग:)  
The following poetry pieces from the above book are to be studied  
1) दशावतारस्तुति: (Dasavataraastutih)  
2) गीतासूरभम् (Gitasourabham)  
3) रघुवंशम् (Raghuvansam)

c) **Grammar from the Prose and Poetry**  
1) कारकविभक्ति (Karak Vibhakti)
2) संथि - सांधि विच्छेद - Sandhi and Sandhi Viccheda  

**d) Topics from the Grammar text**  
1) **शब्दरूप Sabdarupa** (नर, फल, लला, मुनि, मलि, वारि, नवी, पितू, मातू, गच्छन, मनस, आलम, तद, किम, हदम, असमद, युमद, डि, ति, चतुर)  
2) **धातुरूप Dhaturupa** (भू, गम, घट, कृ, अस, लभ, पूज)  
3) समास Samasa  
4) **स्त्रीवृत्तम Stripratyaya**  

**e) Translation and Comprehension**  
1) Comprehension - Sanskrit Passage from the comprehension pasages of **संस्कृतप्रभा, Part II**  
2) Translation into Odia/English from Prose and Poetry, Translation from Odia/English to Sanskrit.  

**f) Writing Skill**  
The art of writing - Textual Explanation, Textual long questions and Precis writing.  

**Books Recommended**  
1) **संस्कृतप्रभा, Part II - संस्कृतप्रभा - द्वितीयोभाग:**  
Published by Odisha State Bureau of Textbook Preparation and Production.  
2) **व्याकरण - दर्पंत - व्याकरण दर्पण:**  
Published by Odisha State Bureau of Textbook Preparation and Production.  

**M.I.L. (Sanskrit)**  
SECOND YEAR  

1. **Reading Skill -**  
   
i) Multiple choice questions from Prose & Poetry (3+2)  
   
   \[1 \times 5 = 5 \text{ Marks}\]  
   
ii) Very short questions from Prose & Poetry (2 + 3)  
   
   \[1 \times 5 = 5 \text{ Marks}\]  
   
iii) Short questions from Prose & Poetry (1 + 1)  
   
   \[2 \times 2 = 4 \text{ Marks}\]  
   
   (out of 4 questions)  
   
iv) Two questions from Prose & Poetry (1+1)  
   
   \[3 \times 2 = 6 \text{ Marks}\]  
   
   (out of 4 questions)  
   

2. **Writing Skill -**  
   
i) Very short questions from Grammar Text - 10 Marks  
   
a) Sabdarupa - \[1 \times 3 = 3 \text{ Marks}\]  
   
b) Dhaturupa - \[1 \times 3 = 3 \text{ Marks}\]  
   
c) Samasa - \[1 \times 2 = 2 \text{ Marks}\]  
   
d) Stripratyaya - \[1 \times 2 = 2 \text{ Marks}\]  
   
ii) Translation of verse into Odia / English from Poetry Text - \[4 \times 1 = 4 \text{ Marks}\] (out of 02 verses)
Arts Stream

3. **Literary Text**

   i) Grammar from Prose/Poetry Text - 10 Marks
      Karaka-Vibhakti - 2 x 3 = 6 Marks
      Sandhi and Sandhi-Vicchheda - 1 x 4 = 4 Marks
   
   ii) Explanation of Verse from Poetry text (one) 8 x 1 = 8 Marks
   
   iii) Questions from Prose & Poetry (1+1)
      6 x 2 = 12 Marks (out of 4 questions)
   
   iv) Comprehension of passage from text (9 - 16) 2 x 5 = 10 Marks

N.B. : Answer in Sanskrit are to be written either in Odia script or in Devanagari script.

**ALTERNATIVE ENGLISH**

1st year (Detailed Syllabus)

**FIRST YEAR**

**Unit -I Prose**

i. The Adventure of Learning

ii. Men and Women

iii. Modern Living

iv. Food for Thought

**Unit -II Poetry**

i. Ecology (A.K.Ramanujan)

ii. Dog’s Death (John Updike)

iii. The Fog (W.H.Davies)

iv. Girl Lithe and Tawny (Pablo Neruda)

v. Ballad of the Landlord (Langston Hughes)

**Unit -III Short Stories**

i. The Rainbow-Bird (Vance Palmer)

ii. The Eyes Have it (Ruskin Bond)

iii. The little Wife (William March)

**Unit -IV One-Act Plays**

i. Mother’s Day (J.B. Priestley)

ii. The Unexpected (Ella Adkins)

**Unit-V GRAMMAR & USAGE**

i. Tense and Aspect

ii. Modals

iii. Non-finite verb forms

iv. The Passive
v. Prepositions and Phrasal Verbs

QUEST QUESTION PATTERN AND DISTRIBUTION OF MARKS
ALTERNATIVE ENGLISH +2 IST YEAR

FULL MARK-100 TIME-3 Hrs

1. Reading Comprehension.
   a) A prescribed prose piece or extract (5 questions including inferential questions are to be answered). 10 Marks
   b) A prescribed poem / extract (5 questions including inferential questions and those on poetic devices, figures of speech, mode, tone and style etc.) 10 Marks
   c) A prescribed story / one-act play or its extract (5 questions including Inferential questions and those on literary devices, tone etc.) 10 Marks
   d) An unseen passage of at least 200 words. (5 questions including inferential ones) 10 Marks

2. Reading related skills.
   a) Guided note making based on the passage 1 (d) 5Marks
   b) Cohesive devices 10 Marks

3. Writing skills.
   a) Summarising an unknown passage as given in 1 (d) with caption 10 Marks
   b) Reconstruct a story from a given set of questions/fillers/outlines or completion of a story 10 Marks
   c) Essay writing (including branstorming, organizing, outlining, writing first draft and revising) 10 Marks

4. Grammar and usage (in context) (3 questions on the prescribed grammar units) 10 Marks

SECOND YEAR

Units -I Prose

i. The Wonder World of Science vi
ii. Our Environment vii
iii. The World of Business viii
iv. The Changing World ix
Unit -II Poetry

Sl. No.       Units
i.  Indian Children Speak (Juanita Bell) vi.
ii. The Goat Paths (James Stephen) vii
iii. Of a Questionable Conviction viii
      (Jayanta Mahapatra)
iv.  Mirror (Sylvia Plath) ix
v.   Toads (Philip Larkin) x

Short Stories

Units to be studied:
Sl. No.       Units
i.  The Happy Man (W.S. Maugham) xiv
ii. The Tree (Manoj Das) xv
iii. The Watch Man (R.K. Narayan) xvi

One Act Plays

Units to be studied:
Sl. No.       Units
i.  The Hour of Truth (Percival Wilde) xix

C. Grammar & Usage

i.  Revision of Tense and Aspect'
i.  Revision of Prepositions and Phrasal Verbs
iii. Clause-types
iv.  Linking Devices
v.   Word Order and Emphasis

Books Prescribed: Approaches to English-I
Approaches to English-II

Published by - Odisha State Bureau of Textbook Preparation & Production, Pustak Bhavan, Bhubaneswar.

QUESTION PATTERN AND DISTRIBUTION OF MARKS
ALTERNATIVE ENGLISH +2 2ND YEAR

FULL MARK-100 TIME-3 Hrs

1. Reading Comprehension.
   a) A prescribed prose piece or extract 10 Marks
      (5 questions including inferential questions are to be answered).
   b) A prescribed poem / extract 10 Marks
      (5 questions including inferential questions and those on poetic devices,
      figures of speech, mode, tone and style etc.)
   c) A prescribed story / one-act play or its extract 10 Marks
      (5 questions including Inferential questions and those on literary devices,
      tone etc.)
d) An unseen passage of at least 200 words. 10 Marks
   (5 questions including inferential ones)

2. **Reading related skills.**
   a) Un Guided note making based on the passage 1 (d) 10 Marks

3. **Writing skills.**
   a) Designing and writing a brochure 10 Marks
   b) Writing dialogues of a face-to-face / telephonic conversation. 10 Marks
   c) Rewriting a poem/short story as a different form of discourse i.e. a page of
      a diary, a newspaper report/article or a script for a play etc. 10 Marks
   d) Adding a suitable beginning/ending/title to a given poem/story. 5 Marks

4. **Grammar and usage(in context)**
   (3 questions on the prescribed grammar units including modified close tests 15 Marks

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**ENVIRONMENTAL EDUCATION**

*(Compulsory)*

**F.M. 70**

**Theory.**

Unit - I Man and Environment
Unit - II Environmental Pollution
Unit - III Environmental Management
Unit - IV Road Safety.

**THEORY**

**P.M. : 70**

UNIT - I

(A) **Man and Environment: Environment: Components:** -
   Atmosphere, Lithosphere, Hydrosphere and Biosphere- Human being as a rational social
   partner in environmental action - Impact of human activities on environment -
   Environmental Problems of urban and rural areas- Stress on civic amenities: supply of
   water, electricity, transport and health services.

(B) **Natural Resources**
   Land, water, forest as primary natural resources- Fresh water and Marine resources-
   Natural resources of Orissa - Concept of Biodiversity and its conservation - Renewable
   and non-renewable resources - Conventional and non - conventional energy.

UNIT - II

Environmental Pollution:
   Types of pollution;and pollutants-Causes, effects and control of air pollution, water pollution,
soil pollution and noise pollution, Green house effect, Global Warming, Eutrophication, Ozone layer depletion.

UNIT - III
(A) Environmental Management:

(B) Environmental Laws:
Constitutional Provisions - Major provisions of Environmental Laws and Pollution Control Laws with particular reference to the Water Act, 1974, the Air Act, 1981, the E(P) Act 1986, CPCB and SPCB - (Central and State Pollution Control Boards).

UNIT - IV
Road Safety
a) Concept & Need
b) Traffic signs
c) What to do and what not to do while on the road - safety guidelines
   offence and penalties.
d) Traffic Management: RTO, MVI, Police / Traffic Police
e) Traffic Awareness.

PROJECTS

1. To study the changes that have taken place in the given land area of a city, village/locality/market during the last five years in respect of at least five parameters like number of houses, residents and families; food habits, number of household goods in a family, consumption of water, electricity and fuel including that of personal vehicles by a family, sources of noise (public address systems being used, television, radio and vehicles on the road), common facilities like number of schools, hospitals, shops, theatres, public conveyance, public utilities, public transport, number of factories, industries and/or the facilities for production and processing of goods, loss of water bodies, types and quantity of wastes, their disposal and treatment facilities with a view to discuss the patterns of changes and impact on the environment and quality of life. One specific project on these aspects may be selected to study the changes that have taken place in a given area during the last five years in respect of the number of houses, residents and families and to prepare a report on the effects on civic amenities like availability of water, electricity and fuel; the drainage system, disposal of wastes including night soil,

2. To study the environmental profile of a town/locality/village in respect of population density, green cover, educational level of residents, social problems and sources of pollution and their effect on air, water and soil.

3. To collect data on monthly consumption of electricity and fuel from at least five families, any two commercial establishments and four public utilities in a given locality. To plan strategies for educating consumers to economise on the consumption of electricity and fuel by reducing their over-use, misuse and improper use.

4. To study, for a period of one month, the status of sanitary conditions and methods of waste disposal of a given locality vis-a-vis the role of Panchayat, Municipality or
Corporation and to prepare an action plan for making the conditions more environment friendly.

5. To investigate the impact of an industry or a large manufacturing unit on the local environment. The parameters could be land use, the ratio of the covered area and the open space, the raw materials used for production, inputs like electricity and water, the types of waste generated and the modes of waste disposal, use of environment friendly and efficient technology, types of pollutants emitted or discharged, the average health status of the employees and residents in the area.

6. To study the impact of changes in agricultural practices or animal husbandry including poultry, piggery, fishery and apiculture over a period of time on the local environment of a given locality or village. The components for analysis may include: types of crops, land area under cultivation, mechanisation, use of electricity, mode of irrigation and agrochemicals, agro-waste and their disposal, types of animal breed and their feed, types of shelter and healthcare, methods of preservation and processing of products and animal wastes and their disposal. To suggest an action plan for modifying the prevailing practices so as to make them environment friendly and sustainable.

7. To collect samples of water from different sources and study their physical characteristics like turbidity, colour, odour, the measure of pH, the nature of suspended and dissolved impurities and pollutants, the presence of toxic materials like mercury, lead, arsenic, fluorine and the presence of living organisms. For testing the presence of toxic materials and living organisms, the help of a local laboratory or institution may be taken, if available. To identify the most polluted sample of water and locate the sources of its pollution. To devise an action plan for mobilising public opinion for checking the pollution.

8. To study the practices followed in the region for storage, preservation, transportation and processing of perishable or non-perishable farm products and to assess the extent of their wastage due to faulty practices.

9. To prepare a status report on the prevalence of child labour in a given area through sample surveys on children engaged as domestic help and as workers in farms, commercial establishments and manufacturing units: The survey may be in respect of age group, education, wages, working hours, working conditions, safety in works place, health, handling hazardous materials and the like. Units dealing with hazardous materials and processes may be identified and an action plan for mobilising public opinion against the practice of child labour may be prepared.

10. To conduct a survey of plants in a locality and to collect information about their cultural, economic and medicinal values from the local people and the available literature. To prepare an action plan for their propagation.

11. Road Safety Project.

(i) To conduct a survey on Traffic Offences and student initiatives to check it.
(ii) To prepare a status report on the prevalence of Traffic - problems in a given area.
(iii) To suggest an action plan for prevention of road accidents,
(iv) To suggest the use of efficient technology for better traffic management.

Environmental Education will be assessed at the college level for 100 marks (70 marks for theory and 30 marks for project work) before Test Examination of the college for Annual
Higher Secondary Examination and the grades (A +a, B, C, D, in order of merit) are to be awarded by the college and the same shall be recorded in the body of the pass certificate given by the council subsequently. The grade secured in the Environmental Education (EE) will not affect the result of the candidate.

<table>
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<td>Gr C</td>
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<td>Gr D</td>
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**BOOK PRESCRIBED:**

Bureau's Higher Secondary (+2) Environmental Education, Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.

**YOGA**

(Theory)

+2 1st year

Full Marks - 50 Time 2 hrs.

<table>
<thead>
<tr>
<th>Unit</th>
<th>10 marks</th>
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<tbody>
<tr>
<td>I</td>
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<td>II</td>
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<td>IV</td>
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<td>V</td>
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</table>

**CONCEPT YOGA**

Meaning, Definition and Scope of yoga, Importance and aim of yoga for the students, Misconception of Yoga

Yoga and Spirituality

**BASIC PRINCIPLES OF YOGA PRACTICE**

Place, Time, Age, Diet, Dress, Do's and Don'ts

Power of Silence

**BRANCHES OF YOGA**

Karma Yoga, Bhakti Yoga, Raja Yoga, Jnana Yoga

Yoga in Srimad Bhagavat Gita

**CONCEPT OF ASTHANGA YOGA**

Yama, niyama, asana, pranayama, pratyahara, dharana, dhyana and samadhi

**YOGA AND PERSONALITY DEVELOPMENT**

Meaning, Definition of Personality

Dimension of Personality: physical, mental, emotional, intellectual and spiritual. Personality Development in relation to external world civic, social, patriotic and global consciousness. Concept of Personality According to swami Vivekananda and Sri Aurobindo. (Practical)
+2 2nd year,

Full Marks - 50

Unit - I

ASANA

PRILIMINARY PRACTICES: Greeva Sanchalana, skandha chakra (shoulder rotation), purna, titali asana (full butterfly), marjari asana (car stretch pose), Surya Namaskara

STANDING POSTURE: Tadasana, tiryak tadasana, katichakrasana pada-hastasana, ardha chakrasana, ardhakati chakrasana, ekapada pranamasana, garudasana, natarajasana.

SITTING POSTURE: padmasana janusirasana, paschimottanasana, supta vajrasana, shashankasana, ustrasana, ardhamatsyendrasana.

PRONE LYING POSTURE: shalabhasana, bhujangasana, dhanurasana.

SUPINE POSTURE: uttanapadasana, supta pawanamuktasana, naukasana, halasana, sarvangasana, matsyasana, chakrasana.

Unit-II

RELAXATION: savasana, yoganidra

Unit-III

PRANAYAMA: Priiiminary practices: abdominal, thoracic, clavicular and fullyogic breathing kapalabhati, nadisodhana, bhramari seetali/seetkari

Unit - IV and Unit - V

MEDITATION: Antarmouna - sensorial awareness: (sound, touch, vision, smell, taste), breath awareness, awareness of the spontaneous thought process.

Unit-V

KRIYA: Trataka (internal and external)

For +2 1st year 50 marks theory examination and For +2 2nd year 50 marks practical examination but in 1st year and 2nd year students will learn practical

The grade secured taking together both the theory and Project/Practical marks will be reflected in the Marks sheet and the pass certificate of the Council.

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Books Prescribed: An Introduction to Yoga, Published by Odisha State Bureau of Textbook Preparation

BASIC COMPUTER EDUCATION

+2 1st Year

UNIT - I

UNIT - II
Operating System: types, software, Dos and Windows: Fundamentals and Commands, Security and Anti-virus
Introduction to MS_OFFICE:
MS-WORD: Creating a File, setting and typing text, page formatting, editing; printing, saving the files, creating Folders, Insertion tables and objects, Bulletin, Page Numbering., spell check, indenting;, paragraph setting and mail merge, CD writing.
MS-EXCEL: Spread sheet and its uses, an introduction, formatting work sheet, setting columns/Rows, range, Format, protect, sorting, types of graphs, functions and formula, printing text, copying and saving the document.
MS-POWER POINT: Features, Uses, Menus, Toolbars, creating a presentation through auto context wizard, templates, manual slides show, saving, deleting, opening a presentation, Editing.
MS-ACCESS: Data base, database Management system, RDBMS, advantages and limitations of MS- Access, parts, tables, integrity constraints, relationship and designing tables.

UNIT - III
INTERNET AND COMPUTER SECURITY:
Introduction to Internet, net browsing, Emails, Networking and its types, topology, computer crime, components required for internet, saving and printing the web files.
APPLICATIONS: in Education, Medical Science, Business, Entertainment, Social service’s and Research etc. 7 hours
For +2 1st year 50 marks theory examination and For +2 2nd year 50 marks practical examination. TOTAL HOURS: 30 (THEORY) AND 10 HOURS (PRACTICAL).

+2 2nd Year
PRACTICALS:
DOS, Windows, MS-Office, web page, browsing, sending and creating a mail.
The grade secured taking together both the theory and Project/Practical marks will be reflected in the Marks sheet’ and the pass certificate of the Council.

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LANGUAGE - ODIA

Theodora B. Jones, Department of Education

Unit 2 (Second)

傳 700
傳 7 7

Unit 2 (Unit - I) - (রিঃ সিল্বারু)

1. Name the following : 'গ্রাম গড়া' - গ্রাম, গড়া, গল, গড়া ; গল, গড়া, গল, গল

   - এই নামের কোন এক কলা বিষয় নির্দেশ নাই। গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

Unit 2 (Unit - II) - (রিঃ সিল্বারু) 70 冴

2. Name the following : 'পূর্ব গড়া' - পূর্ব, গড়া, গল, গল, গল, গল

   - এই নামের কোন এক কলা বিষয় নির্দেশ নাই। গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

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   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

   - এই এক কলা বিষয়। গল, গল, গল, গল, গল, গল, গল, গল

Unit 2 (Unit - III) - (রিঃ সিল্বারু)
পুনর্ব্যাখ্যা (Unit - III) - (২৭ শিক্ষাব্যাঘাত) ৯০ দৃশ্য

১. একটি দৃশ্য: একটি ৫ - একটি চিত্র তুলে নেব। দুই টি সরু হলে তাই হলাই দুইটি অক্ষ ও একটি শীর্ষ।
যেটি প্রকাশে এর সময় একটি সঠিক বাড়ি।
 যেটি প্রকাশে এর সময় একটি সঠিক বাড়ি।
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 যেটি প্রকাশে এর সময় একটি সঠিক বাড়ি।

পুনর্ব্যাখ্যা (Unit - IV) - (২৭ শিক্ষাব্যাঘাত) ৯০ দৃশ্য

২. দুইটি দৃশ্য: একটি ৬ - একটি চিত্র তুলে নেব।
 যেটি প্রকাশে এর সময় একটি সঠিক বাড়ি।
 যেটি প্রকাশে এর সময় একটি সঠিক বাড়ি।
 যেটি প্রকাশে এর সময় একটি সঠিক বাড়ি।
 যেটি প্রকাশে এর সময় একটি সঠিক বাড়ি।
 যেটি প্রকাশে এর সময় একটি সঠিক বাড়ি।

পুনর্ব্যাখ্যা (Unit - V) - (২৭ শিক্ষাব্যাঘাত) ৯০ দৃশ্য

৩. একটি দৃশ্য:
 ১) দুই ১০ - দুই ১০ শিক্ষাব্যাঘাত।
 ২) দুই ২০ - দুই ২০ শিক্ষাব্যাঘাত।
 ৩) দুই ৩০ - দুই ৩০ শিক্ষাব্যাঘাত।

বাঙ্গালী - বিষয়বস্তু, প্রশ্ন এলাকা
চিত্র দৃশ্য হয়ে চিত্র দৃশ্য হয়ে চিত্র দৃশ্য, প্রশ্নমুখী
BENGALI
ELECTIVE

FIRST YEAR

There shall be one paper carrying 100 marks and of three hours duration in elective Bengali in the first year consisting of our units.

The Examination of the first year shall be conducted at the end of the XI class at college / H.S. School level.

Detailed Study: (To be taught in the 1st Year)

UNIT-I

Poetry:
Naibedya - Rabindranath Tagore the following
pieces to be studied -

1. Pratidina Ami He Jibonswami
10. Jara Kache Ache
20. Tomaro Pataka Jare dao
27. Dehe Ar Mare prane
50. E Durbhagya Desh Hote

UNIT - II

History of Bengali Literature
Topics to be taught:-

Charyapada, Kabikankan Mukundaram and Chaitanya Sahitya

Total Marks = 25

UNIT - III

Short - Story

Bangla Galpa Sangraha - Mahashareta Devi

pieces to be taught:

1. Chhuti - Rabindranath Tagore
2. Mahesh - Sarat Ch. Chattopadhyay
3. Adarini - Pravat Kr. Mukhopadhyay
4. Kalapahar - Tarasankar Bandopadhyay

Total Marks = 25
UNIT - IV

Grammar:
Proverb and Idioms Common errors in words

Make distributions :

UNIT-II
Two Long question with alternative
One Explanation / Short type questions with alternative

UNIT-II
One Long question
One Short questions / Explanation

UNIT-III
One long question
One short Answer type question

UNIT-IV
Grammar
Proverb & Idioms Errors

SECOND YEAR

There shall be one paper carrying 100 marks and of three hours duration in elective Bengali in the first year consisting of four units.

The Examination of the first year shall be conducted at the end of the XII class at college / H.S. School level.

Detailed Study : (To be taught in the 1st year)

UNIT-I
Naibedya - Rabindranath Tagore
Pieces to be studied -
30. Bairagya Sndhna Mukti
45. Je Bhakti Tomare Loye
72. Chitta Getha Bhayashynya
90. Mrityno Angyata Mor

UNIT-II
History of Bengali Literature
Topics to be taught :-
History of Bengali Prose to be Fortwilliom Vidyasagar, Raja Ram Mhoan Ray as a Novelist Tarasankar & Manik Banodopadhay.

UNIT-III

Short - Story
Galpa Guchha By Rabindra Nath Tagore.
Pieces to be taught:
Post Master, Dena paona, Khokababur Pratya, Bartan, Kabaliwala

UNIT-IV

Grammer
Alankar - Arupras, Yamak, Slesha, Upama, Rupak, Utprekshya

Make distributions :

UNIT-II
Two Long question with alternative
One Explanation / Short type questions
with alternative

UNIT-II History of Bengali Literature
Two Long question with alternative

UNIT-III

Short Story
Two Long question with alternative
Two Long question with alternative
One short Answer type question

UNIT-IV

Grammer
(i) Defination
(Short Answer type Question)
(ii) Eassy
Question Pattern & Distribution of Marks

Group - A

(Objective type)

(i) Multiple choice Ten questions from Unit - I, II & IV $1 \times 10 = 10$

(ii) One Word Answer type fifteen questions from Unit - I II & IV $1 \times 15 = 15$

(iii) Correct the sentences ten questions from Unit - IV $1 \times 10 = 10$

(iv) Fill in the blanks five questions from Unit - I, II & IV $1 \times 05 = 05$

Group - B

(Short answer type)

(i) Short four to five lines answer type five questions from Unit - I, II, III $3 \times 15 = 15$

(Eight questions may be asked)

(ii) Explain only (only with in two to three sentences) from Unit - I, II $3 \times 5 = 15$

(Eight questions may be asked)

Group - C

(Long answer type)

(i) Long ten to twelve line answers type six questions from Unit - I, II, III $5 \times 6 = 30$

(Ten questions may be asked)

Total = 100
Question Pattern & Distribution of Marks

Group - A

(Objective type questions)

(i) Multiple choice (Proetry - I, Prose - II) 1 x 10 = 10
(ii) One word answer (I, II & IV) 1 x 15 = 15
(iii) Correct the sentences from text (II & IV) 1 x 10 = 10
(iv) Fill in the blanks (I, II & IV) 1 x 05 = 05

Total Marks = 40

Group - B

(Short answer type questions)

(i) Short answer type 4-5 sentences from Unit - I, II, II 3 x 15 = 15
   (Eight questions may be asked)
(ii) Explain only (only with in two to three sentences) from Unit - I, II 3 x 5 = 15
    (Eight questions may be asked)

Total Marks = 30

Group - C

(Long answer type)

(i) Long ten to twelve line answers type six questions from Unit - I, II, III 5 x 6 = 30
    (Ten questions may be asked)

Total = 100
CHSE EXAMINATION : ARTS
LANGUAGE - HINDI - II (ELECTIVE)
SECOND YEAR
DETAILED SYLLABUS

Time : 3 Hours  F.M, - 100

साहित्य साधना
पाठ्यपुस्तक प्रणयन संस्था, ओडिशा, भुवनेश्वर

UNIT - I
काव्य :
रशिमरथी - दिनकर (केवल, ४, ६, ७ सर्ग)

UNIT - II
तथा कहानियों की एक संकलन पुस्तक होगी

गद्य :
(i) बालमुकुन्द गुप्त - बनाम लद्द कर्जन
(ii) रामचन्द्र शुक्ल - करुणा
(iii) मंददलारे बाजपेयी - भारतीय साहित्य को एकता
(iv) हरिशंकर परसाई - भेड़े और भेड़िये

UNIT - III
कहानी :
(i) अज्ञाय - शारणदाता
(ii) दशपाल - आदमी का बच्चा
(iii) अभस्कत - दोपहर का भोजन
(iv) मल भंजरी - नई नौकरी

UNIT - IV
व्यकरण :
(i) संज्ञा, लिंग, वचन, कारक, विभक्ति
(ii) अनुवाद, (पाँच अंग्रेजी वाक्यों का हिंदी में अनुवाद)

Question Pattnm

Distribution of Marks

Group A - Objective type question
Poetry / Prose
(i) Multiple Choice I II   = 1 × 10 = 10
(ii) On ward mark I II IV  = 1 × 15 = 15
(iii) Correct the sentence from text II IV = 1 × 10 = 10
(iv) Fill in the blanks I II IV = 1 × 05 = 05

Group B - Short answer type question
(i) Short answer (4-5 sentences) from Unit - I, II, III = 3 × 5 = 15
(right question may be asked)
(ii) Equivalence (2-3 sentences) for Unit - I & II = 3 × 5 = 15
(eight question may be asked)

Group C - Any answer type question
(i) Long answer (10-12 sentences) = 5 × 6 = 30
(Six question for I II III)
(Ten questions may be asked)

Total 100
Hindi (Elective)
CHSE Examination - Arts
Language : Hindi-I (Elective)
First year
Detailed syllabus

Time : 3 hours
Full Marks - 100

Unit - I

उपन्यास :
प्रमचन्द - निर्मला

Unit - II

नाटक :
प्रसाद - धुचस्वामिनी

Unit - III

साहित्यिक विचारें :
उपन्यास, कहानी, नाटक, संस्करण, रिसोंटजी, जीवनी, आत्मकथा
(i) कारक - विभक्ति
(ii) पद्भंग और वाक्य रचना
संदर्भ पुस्तकें
1. गुलाब रू - कारके रूप
2. हजारी प्रसाद द्विवेदी - साहित्य सहचर
3. वायुदेवनदन प्रसाद - हिन्दी व्याकरण और रचना
Question Pattern & Distribution of Marks

**Group-A (Objective type)**

(i) Multiple choice Ten questions from Unit-I, II & IV  
   \[ 1 \times 10 = 10 \]

(ii) One word answer type fifteen questions from Unit-I, II & IV  
    \[ 1 \times 15 = 15 \]

(iii) Correct the sentences Ten questions from Unit-IV  
     \[ 1 \times 10 = 10 \]

(iv) Fill in the blanks five questions from Unit-I, II & IV  
     \[ 1 \times 05 = 05 \]

**Group- B (Short answer type)**

(i) Short four to five lines answer type five questions from Unit-I, II, III  
    \[ 3 \times 5 = 15 \]
   (Eight questions may be asked)

(ii) Explain only (Only Arth in two to three sentences)  
    from Unit - I, II  
    \[ 3 \times 5 = 15 \]
   (Eight questions may be asked)

**Group C (Long anser type)**

(i) Long ten to twelve line ansers type six questions  
from Unit - I, II, III  
\[ 5 \times 6 = 30 \]
   (Ten questions may be asked)

\[ \text{Total} \quad 100 \]
TELUGU
ELECTIVE
FIRST YEAR
For the year 2016-17

Time-3 hours No of periods per eweek - 4
Full Marks -100

There shall be one paper carrying 100 marks of three hours duration consisting of Four units. The examination shall be conducted at the end of First year of College/H.S.School.

Distribution of Marks

Group - A (Objective Type)
1. Thirty very short questions (from unit I,ll&lll) .................................. 30 x 1 = 30 marks
2. Ten very short questions (from unit I,ll&lll) ........................................ 10X1 = 10 marks

Group - B (Short Type)
3. Six short questions (from unit I,ll&lll) .............................................. 6 X 2 = 12 marks
4. Four Explanations (only Bhavartha from unit I & II) ............................4X2 = 8 marks
5. Five short questions (from unit IV-A) ................................................5 X 2 = 10 marks

Group - C (Long Type)
6. Three long questions with alternative (from Unit I,II & III) ..................3 X 7 =21 marks
7. One Long Question (from unit IV -B) ..................................................1 X 9 =9 marks

Total = 100 marks

TOPICS TO BE STUDIED

Unit - I   Poetry : (25 periods)
1. Satyabhama Santwanam - Nandi Timmana
2. Sankranti - Tummala Seetarama Murty
3. Sainikudi Uttaram - Balagangadhar Tilak
4. Lakuma Tyagamu - Dr.C.Narayanareddy
Unit-II Prose: (25 Periods)
1. Nachana somuni Naveena Gunamulu - Rallapalli Anantakrishna Sarma
2. Maharastrulu Andhra Bhashaseva - Vidwan Vemuri Venkataramayya
3. Margadarsi Gurajada - Sreepada Subramanya Sastri
4. Gramanama Vignyanamu - Dr. Singupuram Narayana Rao

Unit-Non-detail: (10 Periods)
Varadu - Dr Kandimalla Sambasiva Rao

Unit-IV (A)Grammar: (10 Periods)
Samskruta sandhulu: Savarnadeergha, Guna, Anunasika, Pararupa.
Telugu sandhulu: Dwiruktatakara, Gasadadavadesa, Saraladesa, Amredita, Trika,
Samasamulu: Tatpurusha, Karmadharaya, Dwigu, Dwandva, Bahuveehi, Auyayeebhava.

TOPICS TO BE STUDIED

Unit - I Poetry: (25 periods)
1. Prahlada Charitra - Bammera Potana
2. Sreekalahasteewara - Dhurjati Mahakavi
3. Vasantha Vikasamu - Rayaprolu Subbarao
4. Desacharitralu - Sri Sri
5. Samunmeshamu - Jandhyala Papayya sastry

Unit-II Prose: (25 Periods)
1. Desabhimanam - Kandukuri Veeresalingam
2. Reddyyugamu Andhravaknmayamu - Mallampalli Somasekhara sarma
3. Mahakavi Gurajada - Dr. Singupuram Narayana Rao
4. Telugunatakam Janapadakalarupalu - Dr. Kandimalla Sambasiva Rao

Unit-Non-detail: (10 Periods)
Devayani - Chundi Venkanna Rao

Unit-IV (A)Grammar: (10 Periods)
Chandassu: Utpalamala, Champakamala, Sardhulamu, Mathebhamu, Kandamu, Tetageeti, Ataveladi.
Alankaramulu: Upama, Rupaka, Utpreksha, ARdhantaranyasa, Atisayokti, Swabhavokti,

(B) History of Telugu Literature: (10 Periods)
Some Knowledge about the following Poets and their writings:
Nannaya, Tikkana, Yerrana, Sreenadha, Potana, Rayalu, Tenali Ramakrishna, Vemana, Kandukuri, Gurajada, Rayaprolu, Sri Sri.
Unit - IV (A) Grammer : (10 Periods)

Vibhaktulu - Pratyayalu, Prakruti - Vikrutulu, Vyatireka padamulu,
Paryaya padamulu, Jateeyalu- padabandhalu.

(B) Letter writing/General Essay :(05 Periods)

MIL (TELUGU)
SECOND YEAR
(Compulsory)
For the year 2016-17

Time-3 hours

No of periods per week : 4

Full marks - 100

There shall be one paper carrying 100 marks of three hours duration consisting of Four units. The examination shall be conducted at the end of Second year of College/H.S. School.

Distribution of Marks

Group - A (Objective Type)

1. Thirty very short questions (from unit 1, 11 & 111)
   .................................. 30 x 1 = 30 marks

2. Ten very short questions (from unit I, II & III)
   .................................. 10 X 1 = 10 marks

Group - B (short Type)

3. Six short questions (from unit I, III & III)
   .................................. 6 X 2 = 12 marks

4. Four Explanations (only Bhavartha from unit I & II)
   .................................. 4X2 = 8 marks

5. Five short questions (from unit IV-A)
   .................................. 5X2 = 10 marks

Group - C (Long Type)

6. Three long questions with alternative (From unit I, II & III)
   .................................. 3X7 = 21 marks

7. Re -Translation (from unit IV -B)
   .................................. 1 X 9 = 9 marks

Total = 100 marks
URDU
ELECTIVE
FIRST YEAR
Total Classes-80

Time-3 hrs.  F.M. - 100

There shall be one Paper carrying 100 marks consisting of 3 (three) groups and duration of examination will be of 3 (three) hours at the C.H.S.E. / H.S.E. level.

Distribution of marks

GROUP - A

30 MARKS

Very Short Type Answers.

Q. 1. **Objective type questions from all units Prose, Drama and Novel.**
   A. Five objective questions from prose portion "Tanweer-E-Adab."  
      \[1 \times 5 = 5 \text{ Marks}\]
   B. Five objective type questions from Drama portion.  
      \[1 \times 5 = 5 \text{ Marks}\]
   C. Five objective type questions from Novel portion.  
      \[1 \times 5 = 5 \text{ Marks}\]

   **Total = 15 Marks**

Grammar

Q. 2.
   A. One word answer five questions.  
      \[1 \times 5 = 5 \text{ Marks}\]
   B. Very short answer five questions.  
      \[1 \times 5 = 5 \text{ Marks}\]
   C. Fill in the Blanks five questions.  
      \[1 \times 5 = 5 \text{ Marks}\]

   **Total = 15 Marks**

GROUP-B

40 MARKS

Short Type Answers.

Q. 3. **Answer within two/three sentences.**
   A. Rustam-O-Sohrab: Six questions to be answered out of eight questions.  
      \[6 \times 2 = 12 \text{ Marks}\]
   B. Tanweer-e-Adab: Five questions to be answered out of seven questions.  
      \[5 \times 2 = 10 \text{ Marks}\]

   **Total = 22 Marks**
Q. 4. Answer within six sentences.
Numainda Mukhtesar Afsane: Six questions to be answered out of eight questions.

\[3 \times 6 = 18\text{ Marks}\]

GROUP-C
30 MARKS
Long type answers.

Q. 5. Four questions to be answered out of six questions from the books Tanweer-E-Adab, Rustam-o-Sohrab, Numainda Mukhtesar Afsane and Firdous Bareen or, Nirmala.

Unit -1
30 Classes

TANWEER-E-ADAB.
by: Saghir Ahmad Jaan.
only chawtha daur and panchuan daur.

Unit-2
15 Classes

Books Prescribed: Drama
RUSTAM-O-SOHHRAB.
by: Agha Hashar.

Unit-3
20 Classes

Books Prescribed: Short Stories
NUMAINDA MUKHTESAR AFSANE.
by: Taher Farooqui

Portions to be studied:
v. Atthare Ane, vi. Sirf Ek Ana.

Unit-4
15 Classes

Books Prescribed: Novel
i. FIRDOUS BAREEN.
by: Abdual Halim Sharar.
OR
ii. NIRMALA.
by: Prem Chand.
Arts Stream
SECOND YEAR
Total Classes-80

Time - 3 hrs
F.M. - 100
There Shall be one Paper carrying 100 marks consisting of 3 (three) groups and duration of examination will be of 3 (three) hours at the C.H.S.E. / H.S.E. level.

Distribution of marks

GROUP - A

30 MARKS

Very Short types Answers.

Q. 1. Objective type question from all units.
   A. Five objective type questions from prose portion Kalam-E-Mir. 1 x 5 = 5 Marks
   B. Five objective type questions from Chand Ham Asar. 1 x 5 = 5 Marks
   C. Five objective type questions from Kalam-E-Mir. 1 x 5 = 5 Marks
   Total = 15 Marks

Grammar

Q. 2.
   A. One word answer five questions. 1 x 5 = 5 Marks
   B. Very short answer five questions. 1 x 5 = 5 Marks
   C. Fill in the Blanks five questions. 1 x 5 = 5 Marks
   Total = 15 Marks

GROUP - B

40 MARKS

Short Type Answers.

Q. 3. Answer within two/three sentences.
   Chand Ham Asar : 7(Seven) Chapters.
   Eleven questions to be answered out of Fifteen questions. 11 x 2 = 22 Marks

Q. 4. Answer within six sentences
   Kalam-E-Meer: Six Ashaars explanation to be answered out of eight Ashaars. 3 x 6 = 18 Marks

GROUP-C

30 MARKS

Long type answers

Q. 5. Four questions to be answered out of six questions from the books Kalam-E-Meer, Chand Ham Asar, illmulbalaghat, urdu-zoban-o-Qawaid Part-1 and general essay.
Unit -1  
35 Classes

**Books Prescribed:**

**KALAM-E-MEER**  
by: Dr. Abdul Haque or Abdul Mannan Bedil.

**Portions to be studied:**

(a) Life and Style of the poet.
(b) Ghazaliyat "Radif Alif and Yaa".
(c) Masnavi.

Unit-2  
15 Classes

**Books Prescribed:**

**CHAND HAM ASAR**  
by: Maulana Abdul Haque

**Portions to be studied:**

i. Sayed Mehmud Marhoom
ii. Maulvi Chairag Ali Marhoom
iii. Maulana Waheedudin Salim
iv. Gudrika Laal, Noor Khan
v. Mohesnul Mulk
vi. Maulana Mohammed Ali Marhoom
vii. Hali

Unit-3  
30 Classes

**Books Prescribed:** Grammar.

**A. ILLMULBALAGHAT**  
Portions to be studied:

i. Tashbeeh
ii. Istiara
iii. Kinaya
iv. Talmeeh
v. Miratun Nazir
vi. Husn-E-Talab
vii. Tazad
viii. Taaliel
ix. Mobaligha
x. Majaz

**B. URDU ZABAN-O-QAWAID PART-1**  
by: Shafi Ahmed Siddiqui

**Portions to be studied:**

i. Sabque aur lahaque
ii. Tazkir-O-Tanis
iii. Mutazad Alfaz
iv. Mahawara
SANSKRIT
(Elective)

FIRST YEAR

There shall be one paper carrying 100 marks.
The duration of Examination will be of three hours.

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Marks allotted</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Reading skill</td>
</tr>
<tr>
<td>(b) Writing skill</td>
</tr>
<tr>
<td>(c) Literary text</td>
</tr>
<tr>
<td>Total 100 Marks</td>
</tr>
</tbody>
</table>

Topics

<table>
<thead>
<tr>
<th>Classes required</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Poetry</td>
</tr>
<tr>
<td>(b) Prose</td>
</tr>
<tr>
<td>(c) History of Sanskrit Literature</td>
</tr>
<tr>
<td>(d) Grammar and Translation</td>
</tr>
<tr>
<td>Total 80 classes</td>
</tr>
</tbody>
</table>

PORTION TO BE STUDIED

(a) Poetry - Kumarasambhavam of Kalidasa (Canto V)
कुमारसम्भवम् (पंचम सर्गः)

(b) Prose - Sanskrutamandakini (Gadyabhagah)
संस्कृतमन्दाकिनी (गद्यभागः)

01. उपमन्युकथा (Upamanyukatha)
02. परहितसाधनम् (Parahitasadhanam)
03. मुद्रिकाप्राप्ति (Mudrikaprapthih)
04. चन्द्रभूपतिकथा (Chandrabhipati Katha)
05. ससौमिराकथा (Sasemirakatha)
06. ध्रुवोपाख्यानम् (Dhruvopakhyanam)
07. विभिन्नपत्र राज्य प्रति उपदेशः: (Vibhisasasya Ravanam prati upadesah)

(c) History of Sanskrit literature

History of the following authors and their works are to be studied.

01. वाल्मीकि - Valmiki
02. व्यास - Vyasa
03. कालिदास - Kalidasa
04. भास - Bhasa
05. बिष्णुसरमी - Visnusarma
06. पण्डित नायायन - Pandita Narayan
07. चाणक्य - Canakya
08. जयदेव - Jayadeva
09. विशवनाथकविराज - Visvanath Kaviraja
10. मुरारि निष्ठ्र - Murari Mishra

(d) Translation into Odia/English from the text (Prose and Poetry)
(e) Grammar

01. Grammar from Prose and Poetry
   (i) समास (Samasa)
   (ii) कारक-विभक्ति (Karaka - vibhakti)
   (iii) प्रकृति प्रत्यय (Prakriti-pratyaya)

02. Topics from the Grammar text
   (i) कृदन्त (Krudanta) - शौच, शानच, तत्व, अनीयर, वत, कलगु, कला, त्यप, तुमु, कितन, घर, खल।
   (ii) तद्हित (Tadhita)
   (iii) वच्यपरिवर्तन (Vachyaparivartana)
   (iv) वच्यपरचरण (Sentence formation)
   (v) भ्रमसंयोजन - (Correction of sentences)
   (vi) निजन - (Nijanta)

BOOKS RECOMMENDED:

1. संस्कृतमन्दकिनी - Published by Odisha State Bureau of Text Book Preparation and Production
2. संस्कृतसाहित्य-दर्शन - History of Sankrit literature by A.B. Keith, Published by Odisha State Bureau of Text Book Preparation and Production.
3. व्याकरणदर्शण - Published by Odisha State Bureau of Text Book Preparation and Production
4. कुं संस्कृतकवि-परम्परा - Published by Odisha State Bureau of Text Book Preparation and Production
5. कुं भारसभश्वम् - Published by Odisha State Bureau of Text Book Preparation and Production
QUESTIONS PATTERN AND DISTRIBUTION OF MARKS
SANKRIT (ELECTIVE)
FIRST YEAR

1. Reading skill: [20 Marks]
   (i) Multiple choice questions from Prose and Poetry (3 + 2) [1 × 5 = 5 Marks]
   (ii) Very short type questions from Prose and Poetry (2 + 3) [1 × 5 = 5 Marks]
   (iii) Short questions from Prose and Poetry (1 + 1) [2 × 2 = 4 Marks]
   (iv) Questions from Prose and Poetry (1 + 1) [3 × 2 = 6 Marks]
       (out of four (4) questions)

2. Writing skill: [40 Marks]
   (i) Questions from the Grammar text [10 Marks]
       (a) Krdanta [1 × 2 = 2 Marks]
       (b) Nijanta [1 × 2 = 2 Marks]
       (c) Vachyaparivartana [1 × 2 = 2 Marks]
       (d) Vakyarana [1 × 2 = 2 Marks]
       (e) Bhrama sansodhana [1 × 2 = 2 Marks]
   (ii) Translation of verse into Odia/English from Poetry text [4 × 1 = 4 Marks]
       (out of two verses)
   (iii) Translation of one passage into Odia/English from Prose text [6 × 1 = 6 Marks]
   (iv) Two questions from Poetry text [5 × 2 = 10 Marks]
   (v) Two questions from Prose text (out of four)[5 × 2 = 10 Marks]

3. Literary text[40 Marks]
   (i) Questions from text (Prose and Poetry) [10 Marks]
       (a) Samasa [2 × 2 = 4 Marks]
       (b) Karaka-vibhakti [1 × 3 = 3 Marks]
       (c) Prakrti-prataya [1 × 3 = 3 Marks]
   (ii) Explanation of a verse (Poetry) [6 × 1 = 6 Marks]
   (iii) Two short question from Poetry [4 × 2 = 8 Marks]
   (iv) One long question from Poetry [8 × 1 = 8 Marks]

N.B.: The questions may be answered in Sanskrit or Odia or English if not otherwise specified.
SANSKRIT (Elective)

SECOND YEAR

There shall be one paper carrying 100 marks.
The duration of Examination will be of three hours.

COURSE STRUCTURE

Marks allotted
(a) Reading skill 20
(b) Writing skill 40
(c) Literary text 40

Total 100 Marks

Topics
Classes required
(a) Drama 35
(b) Poetry 25
(d) Grammar and Translation 20

Total 80 classes

PORTION TO BE STUDIED

(a) Drama - Suapnavasadattam of Bhasa
(b) Poetry - Samskramadakini (Prathambhagah)
(c) Grammar

01. काण्यनिति - Canakyaniti (Verses 01 to 24)
02. रघुवंश - Raghuvamsam (Verses 01 to 20)
03. दमयंतिस्वयंवर - Damayantisvayamvarah

01. शब्दरूप (Sabdarupa) - देव, कवि, पति, श्री, श्राद्ध, ज्ञान, चित्, सम्प्रदाय, गच्छ, भवत्,
महत्, सुदृढ़, राजन्, गुप्तन्, परमन्
(ii) सांख्य (Samasa)
(iii) क्लियविलिङ्ग (Klivalinga) - फल, वारि, अक्षि, मल्य, कर्माणि, नामाणि, पद्माणि
(iv) सर्वनाम (Sarbanama) - दृष्ट, क्रिम, इत्यादि, सारि, युक्ति, अस्तमि
(v) संख्यावाचक (Samkhyaavacaka) - एक, द्वि, त्रि, चतुर, पचम
03. धतुरुप (Dhaturupa) - भू, गम्, पुरुष, कृषि, पद्, अस्ति, ज्ञा, नी, पा, प्रत्ये, लभ्य, दा, बिद्य, पूज्य
04. चौप्रत्यय (Stripratyaya)
BOOKS RECOMMENDED:
1. संस्कृतमन्त्रिकी - Published by Odisha State Bureau of Text Book Preparation and Production
2. व्याकरणदर्पण - Published by Odisha State Bureau of Text Book Preparation and Production
3. स्वतन्त्रवाचवदतम् - Published by Odisha State Bureau of Text Book Preparation and Production

QUESTIONS PATTERN AND DISTRIBUTION OF MARKS
SANKRIT (ELECTIVE)
SECOND YEAR

1. Reading skill: [20 Marks]
   (i) Multiple choice questions from Drama and Poetry (3 + 2) [1 × 5 = 5 Marks]
   (ii) Very short type questions from Drama and Poetry (2 + 3) [1 × 5 = 5 Marks]
   (iii) Short questions from Drama and Poetry (1 + 1) [2 × 2 = 4 Marks]
   (out of four (4) questions)
   (iv) Questions from Drama and Poetry (1 + 1) [3 × 2 = 6 Marks]
   (out of four (4) questions)

2. Writing skill: [40 Marks]
   (i) Questions from the Grammar text [10 Marks]
      (a) Sabdarupa [1 × 4 = 4 Marks]
      (b) Dhaturupa [1 × 4 = 4 Marks]
      (c) Stripratyaya [1 × 2 = 2 Marks]
   (ii) Translation of verse into Odia / English from Drama and Poetry [4 × 1 = 4 Marks]
      (out of two verses)
   (iii) Translation of unseen passage from Odia / English to Sanskrit [6 × 1 = 6 Marks]
   (iv) Two questions from Drama (out of four) [5 × 2 = 10 Marks]
   (v) Two questions from Poetry (out of four) [5 × 2 = 10 Marks]

3. Literary text [40 Marks]
   (i) Questions from text (Drama and Poetry) [10 Marks]
      (a) Karaka-vibhakti [1 × 3 = 3 Marks]
      (b) Sandhi vichheda [1 × 3 = 3 Marks]
      (c) Samasa [2 × 2 = 4 Marks]
   (ii) One questions from Drama [4 × 1 = 4 Marks]
   (iii) Explanation of a verse (Poetry) [6 × 1 = 6 Marks]
   (iv) One long question from Drama [10 × 1 = 10 Marks]
   (v) One long questions from Poetry [10 × 1 = 10 Marks]

N.B.: The questions may be answered in Sanskrit or Odia or English if not otherwise specified.
HISTORY
First Year (Paper-I)
History of the World

UNIT-I
1. History : Meaning and Relevance
2. History of Human Evolution :
   a) The Precursor of Modern Human Beings
   b) Modern Human Beings :
      i. Early Humans ways of obtaining food.
      ii. Habitat - Trees to caves and open air sites.
      iii. Making of tools
      iv. Modes of communications - Language and art.
   c) Epilogue - Domestication of animals, plants; Development of farming and pastoralism
      as a way of life.
3. Contributions of Ancient River Valley Civilisation :
   a) Egypt
   b) Mesopotamia
   c) China

UNIT - II
1. Ancient Greece :
   a) Rise of city states - Athens and Sparta.
   b) Evolution of Direct Democracy
   c) Age of Pericles.
2. Ancient Rome :
   a) Society : Composition, Gender, Literacy, Culture, Economic Expansions, Slavery.
   b) Roman Constitution
   c) Julius Caesar : Achievements
3. Feudalism in Europe : Features, Merits and Demerits.

UNIT - III
1. Major religions :
   a) Christianity
   b) Islam
2. Science and Changing Cultural Traditions in Europe between 11th and 17th Centuries :
3. European Voyages of Explorations (15th to 17th Centuries).

UNIT-IV
1. Innovations and Technological changes: Industrial Revolutions.

UNIT-V
1. World War-I: Causes and Consequences.
3. Events leading to the World War-II.

2nd Year (Paper-II)
History of India

UNIT-I
1. Sources of Indian History: Archaeological, Literary, Foreign Accounts and Archival
2. Foundation of Indian Culture:
   b) Rig Vedic and Later Vedic Age: Socio-Economic life, Political organization, Religious Beliefs, Position of Women.
3. The Earliest states: Sixteen Mahajanapadas.

UNIT-II
1. Religious Movements of Sixth Century B.C.: Jainism and Buddhism: A critical evaluation of the Teachings, Contribution to Indian culture,
2. Kalinga War: Causes and Effects; Mauryan Administration.

UNIT-III
1. Perceptions of society through the eyes of the Travellers (10th to 17th centuries).
   a) Al-Biruni
   b) Ibn Battuta
   c) Francois Bernier
3. Culture of Mughal Age: Social structure, Position of Women, Art and Architecture, Paintings, Din-i-Ilahi.

UNIT-IV
3. Mahatma Gandhi and National Struggle for Independence:
   a) Non-Cooperation Movement and its response in Odisha.
   b) Civil Disobedience Movement and its response in Odisha.
   c) Quit India Movement and its response in Odisha.

UNIT-V
1. Colonial Cities - Urbanisation, Planning and Architecture:
   a) Towns and Cities in pre-colonial times.
   b) Changes in 18th century.
   c) Trends of changes in the 19th century.
   d) Ports, Forts and Centres for Services.
   e) A new urban milieu.
   f) The First Hill Stations.
   g) Social life in new cities.
   h) Colonial Architecture in Calcutta (Kolkata), Bombay (Mumbai) and Madras (Chennai).
2. Formation of the Province of Odisha:
   a) Movement for Linguistic Identity.
   b) Events leading to the formation of the province.
4. Framing the Indian Constitution:
   a) Making of the Constituent Assembly.
   b) Vision of the Constitution.
   c) Salient features.

BOOK PRESCRIBED:
Bureau’s Higher Secondary (+2) History, Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.
Syllabus

POLITICAL SCIENCE

There shall be two papers in Political Science modelled on the Syllabi of CBSE. Paper-I: Title-Foundation of Political Theory and Indian Government at work (For First Year).

Paper-II: Title-Democracy and Nation Building in India and International affairs (For Second Year).

The subject of Political Science modelled on the Syllabi of CBSE consists of two papers as mentioned above. Paper-I is to be covered in the +2 First Year class and Paper-II is to be covered in the +2 Second Year class. Each paper is divided into two sections and each section is further subdivided into two/three units. Thus there are five units in both Paper-I and Paper-II. Periods have been allocated for the respective units approximately. Teachers are advised to take at least those numbers of periods to cover the particular unit. The major concepts and principles should be taught in such a manner as to stimulate higher mental abilities among students like application, logical thinking, analysis etc., and not the factual information. Paper-setters and Examiners are requested to keep the above in mind while setting questions and examining, respectively. Questions should of short (one word/ multiple-choice/ one sentence), medium (50/100 words/ five sentence) and long (500 words or there about). Also Questions of final/AHS Examination shall cover all the five units of Paper -II.

Objectives of the course/syllabus are, as briefly mentioned above are:

- To enable the students to acquire knowledge about the important concepts, theories, principles, provisions, process and Institutions of the indian constitution, and some rudimentary knowledge about International affairs;
- To acquaint the students with the changing dimension of politics and political theory both in the national and international knowledge domain;
- To develop an interest among the students regarding problems of political domain and to find out the possible solution to those problems.

Suggested Reading:

1. Political Theory- For Class-XI (Published by NCERT, New Delhi)
2. Indian Constitution at Work- For Class-XI (Published by NCERT, New Delhi)
3. Contemporary World Politics, For Class-XII (Published by NCERT, New Delhi)
4. Politics in India, For Class-XII (Published by NCERT, New Delhi)
# First Year CHSE (2016-2017)

Political Science Paper-I (Foundation of Politics and Government)

**PART-A POLITICAL THEORY**

**UNIT-I (Understanding Political Theory)**

<table>
<thead>
<tr>
<th>SI. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Political Theory: An Introduction</strong> - What is Politics? Nature and scope of Politics; Usages of Political Theory.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>State:</strong> Definition; Elements of State.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td><strong>Nature of State Activity:</strong> Individualism; Welfare State; Globalisation.</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**UNIT-II (Basic Concepts)**

<table>
<thead>
<tr>
<th>SI. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Liberty:</strong> Positives and Negative Liberty; Types of Liberty</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>Equality:</strong> Meaning; Dimensions; Significance of Equality.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td><strong>Justice:</strong> Meaning; Dimensions; Significance of Social Justice.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td><strong>Rights:</strong> Meaning; Types; Human Rights and its significance.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td><strong>Secularism:</strong> Meaning; Western and Indian approaches to Secularism.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td><strong>Development:</strong> Meaning; Models of Development; Capitalistic model, Socialist model; Sustainable Development.</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**PART-B INDIAN CONSTITUTION AT WORK**

**UNIT-III (Indian Constitution)**

<table>
<thead>
<tr>
<th>SI. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Philosophy of the Constitution:</strong> Constitution- the Making; Constituent Assembly; Preamble; Basic Features; Amendment Procedure.</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>Rights in the Indian Constitution:</strong> Fundamental Rights; Directive</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>
Principles of State Policy; Relationship between Fundamental Rights & Directive Principles of State Policy; Fundamental Duties.

**UNIT-IV (Constitution at work-I)**

<table>
<thead>
<tr>
<th>SL. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Election and Representation</strong>: Elections and Democracy; Election Commission- Composition and Functions; Challenges to Free and Fair Elections; Electoral Reforms.</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>Legislature</strong>: Parliament- Composition and Functions; State Legislatures (Odisha Vidhan Sabha) Composition and Functions.</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

**UNIT-V (Constitution at work-II)**

<table>
<thead>
<tr>
<th>SL. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Executive</strong>: President- Powers &amp; Position; Prime Minister- Functions &amp; Role; Governor- Powers and Position; Chief Minster- Functions &amp; Role.</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>Judiciary</strong>: Structure of Judiciary; Supreme Court; High Court; Judicial Review; Judicial Activism.</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Second Year CHSE (2017-2018)**

Political Science Paper-II (DEMOCRACY IN INDIA AND INTERNATIONAL POLITICS)

**PART-A** POLITICAL SCIENCES IN INDIA UNIT-I (Democracy in India-)

<table>
<thead>
<tr>
<th>SL. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Democracy: Meaning, Types and Features; Challenges to Democratic Process in India- Inequality, Illiteracy, Regionalism, Naxalite Problem, Gender Inequality.</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Party system in India: Meaning, Types; One Party Dominance, Coalition Politics; Regional Parties.</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

**UNIT-II (Democratic process in India-I)**

<table>
<thead>
<tr>
<th>SL. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Federalism in India: Features; Centre-State relation; Recent Trends in Indian Federalism.</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Local Governance in India-Rural &amp; Urban Local Bodies- Composition &amp; Functions.</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>
### Unit-III Democratic process in India-II)

<table>
<thead>
<tr>
<th>SI. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Challenges to Nation-Building: Meaning; Communalism, Casteism, Regionalism, Terrorism; Remedies.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Contemporary issues in Indian Politics: Popular Movements-Women Movement; Environment protection Movements; Development-Displacement Movements.</td>
<td></td>
</tr>
</tbody>
</table>

### PART-B CONTEMPORARY WORLD POLITICS

#### UNIT-IV (India in World Politics)

<table>
<thead>
<tr>
<th>SI. No.</th>
<th>TOPIC</th>
<th>No of Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Indian Foreign Policy: Basic Features; India and its neighbours-China, Pakistan.</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>International Organizations: UN: Major Organs-General Assembly; Security Council; International Court of Justice; Reforms of the UN. India’s position in UN. International Economic Organizations- World Bank and the IMF.</td>
<td>8</td>
</tr>
</tbody>
</table>

#### UNIT-IV (Issues in International Politics)

<table>
<thead>
<tr>
<th>SI. No.</th>
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<th>No of Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Changing Dimension of Security in Contemporary World: Traditional Security Concerns: Arms Race and Disarmament. Non-Traditional Security Concerns: Human security: Global Poverty, Inequality, Health and Education.</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>Environment and Natural Resources: Global Environmental Concerns; Development and Environment; Global Warming and Climate Change.</td>
<td>8</td>
</tr>
</tbody>
</table>

**BOOK PRESCRIBED:**

Bureau's Higher Secondary (+2)Political Science, Paper-I & II (English & Odia) Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.
UNIT–1 : Nature of Logic: Definition of logic, Structure of Argument, Sentence and proposition, truth and validity, sound and unsound arguments, Principles of Logic. Logic and Language: Used of language, words and terms, Denotation, Corrugation and Extension.


SECOND YEAR

UNIT–1 : The Theory of Inference: Classification of Inference, Convention, Obverses. Categorical Syllsosim: Structure, Figure, Roads, Rules of Syllogism, Determination of valid Roads.


BOOK PRESCRIBED:
Bureau’s Higher Secondary (+2) Logic, Paper-I & II (English & Odia) Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.
PAPER-I

INDIAN ECONOMY AND STATISTICS

A. INDIAN ECONOMY

I. Status of Indian Economy
   - Basic characteristics of contemporary Indian economy
   - Structural changes in the Indian economy and the present state of relative
     contributions of primary, secondary and tertiary sectors.
   - Demographic features, Adverse effects of population growth and
     Population Policy of India

II. Sectoral Development
   - Agriculture- Importance, low productivity and its causes, Green Revolution,
     present agricultural situation.
   - Infrastructure - Role, Economic Infrastructure (Energy, Transport and
     Communications) and Social Infrastructure (Education and Health)
   - Foreign Trade - Role, Composition, Direction.

III. Economic Planning and Economic Reforms
   - Planning - Meaning, Need. Objectives and Achievements, Niti Aayog
   - Economic Reforms Since 1991- need and main features of Liberalisation,
     Privatisation and Globalisation.

IV. Current Challenges Facing the Indian Economy
   - Poverty - absolute and relative poverty, causes of poverty, important
     poverty alleviation programmes currently in place.
   - Unemployment and underemployment - causes, dimensions and government
     programmes currently in place.
   - Inflation - causes and anti-inflationary measures in place.
   - Sustainable economic development - Meaning of sustainable development.
     Economic growth and its adverse impact on Environment. Problems of global
     warming and climate change.

B. STATISTICS FOR ECONOMICS

V. Introductory Statistics
   - Introductory Statistics

08 Periods 07 Marks
• Meaning, scope, importance, uses and limitations of statistics in economics.
• Sources of statistical data- primary and secondary sources, NSSO and Census of India as sources of secondary data in India.
• Methods of collection of primary data - census and sampling methods and their relative merits and demerits.

VI. Frequency Distribution 06 Periods 08 Marks
• Meaning and types of variables and frequency distribution.
• Organisation of Data-Basics, Presentation of data - Tabular and diagrammatic presentation, Bar diagram, Pie diagram, Histogram, Frequency Polygon, Ogives, line graphs, Historigrams.

VII. Statistical Methods - I 14 Periods 15 Marks
• Measures of Central Tendency- Simple and Weighted Arithmetic Mean, Median, Mode, Concepts of Geometric Mean, Harmonic Mean
• Measures of Dispersion
  Absolute Measures - Range, Quartile Deviation, Mean Deviation and Standard Deviation
  Relative Measures - Coefficients of Range, Quartile Deviation, Mean Deviation and Standard Deviation
• Merits and Demerits of different Measures of Dispersion

VIII. Statistical Methods - II 14 Periods 10 Marks
• Correlation- Meaning, Correlation and Causation, Types of Correlation, Scatter diagram Method of measuring correlation, uses of correlation in Economics
• Regression - Meaning, Difference between Correlation and Regression, Uses of Regression in Economics
• Index Numbers-Meaning, Importance, Uses, Consumer and Wholesale Price Index Number.
• Time Series-Meaning, Uses and Components.

Paper-II
Elementary Micro and Macro Economics

A. INTRODUCTORY MICRO ECONOMICS
I. Introduction 10 Periods 10 Marks
• Definition, scope and subject matter of economics.
• Meaning of economy and central problems of an economy- scarcity and choice, what, how and for whom to produce?
• Basic concepts - wants, utility, goods, value, price and wealth.

II. Consumption and Demand

• Laws of consumption - marginal and total utility, law of diminishing marginal utility, law of equimarginal utility and conditions of consumer’s equilibrium
• Demand - meaning and determinants, individual and market demand, demand schedule and demand curve, movement along and shifts in the demand curve.
• Price elasticity of demand - concept, determinants, measurement of price elasticity of demand; percentage and geometric methods (linear demand curve), relation of price elasticity of demand with total expenditure.

III. Production

• Meaning of production and production function - short run and long run.
• Total, Average and Marginal Product.
• Law of variable proportions and returns to a factor.

IV. Cost, Revenue and Supply

• Cost- money and real cost, implicit and explicit cost, fixed and variable cost, Total, average and marginal costs in the short run and their relationship (simple analysis)
• Revenue- Total, average and marginal revenue and their relationship
• Supply - meaning and law of supply

V. Market

• Meaning and forms of market, pure and perfect competition, price determination under perfect competition and effects of shifts in demand and supply
• Meaning and features of monopoly, monopolistic competition and oligopoly.

B. INTRODUCTORY MACRO ECONOMICS

VI. Introduction

• Meaning of macroeconomics, Distinction between macro-and
micro-economics, subject matter of macro economics

VII. National Income 10 Periods 15 Marks
• Meaning and aggregates related to national income - GNP, NNP, GDP and NDP at market price and factor cost.
• National disposable income (Gross and Net), Private Income, Personal income, Personal disposable income, Nominal and real national income.
• Income determination - Aggregate Demand and Supply and their components, simple Keynesian Theory of Income Determination.

VIII. Money, Banking and Public Finance 12 Periods 20 Marks
• Meaning and Functions of Money.
• Meaning and Functions of Commercial Banks.
• Functions of Central Bank.
• Meaning of Public Finance and Difference between public and private finance.
• Budget - Meaning and objectives, balanced and unbalanced budget, surplus and deficit budget.

BOOK PRESCRIBED:
Bureau's Higher Secondary (+2)Economics, Part-I & Part-II Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.

STATISTICS
(FOR 2016-17 BATCH AND ONWARDS)
There shall be two Theory papers in Statistics, each of three hours duration, carrying 70 Marks in First Year and 70 Marks in Second Year and two Practical Papers carrying 30 marks in First Year and 30 Marks in Second Year respectively, each of three hours duration.

The Examination for Paper-I and Practical Examinations will be held at the end of the First Year and examination for Paper-II and Practical Examination will be held at the end of Second Year respectively.

Pattern of Questions
THEORY:

Group-A: Objective Type Questions
1. Multiple Choice Questions (Compulsory)
2. Very Short Type Questions (Compulsory)
**Group-B:** Short Answer Type Questions
1. 8 Questions to be answered out of 12

**Group-C:** Long Answer Type Questions
1. 3 Questions to be answered out of 5 Questions
2. 1 Question will be set up from each unit.

**PRACTICAL:**
1. Solution of Problems - 24 Marks
2. Record - 3 Marks
3. Viva-voce - 3 Marks

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**DETAILED SYLLABU**

+2 First Year ARTS
(To be Covered in First Year, Class-XI)

Theory-70 Marks
3 Hours Duration
(To Cover the Course, Each Unit will take at least 15 Periods)

**Unit- I: BASIC MATHEMATICS**

Fundamental Principle of Counting, Factorial n (n!), Permutation and Combination, Binomial Theorem for positive Integral indices, General and Middle terms in Binomial Expansion, Simple Applications, Logarithmic and Exponential Series.

**Unit-II: PROBABILITY THEORY - I**

Definition of Probability:- Classical, Empirical and Axiomatic Approach, Sample Space and events. Concepts of sets, Correspondence between sets and events, Probability by direct enumeration, Laws of addition and multiplication, Conditional Probability and independence of events, Mutual and pairwise independence of events.

**Unit-III: PROBABILITY THEORY-II**

Concept of Random Variable, Discrete and Continuous random Variables and their probability distributions, Cumulative distribution functions, Mathematical expectation of Random Variables, Addition and Multiplication laws of expectation, Variance of Sum of Random Variables.

**Unit-IV: STATISTICAL METHODS-I**

Definition, Scope and Limitations of Statistics, Collection of Data: Primary and Secondary Data,
Classification of Data, Tabulation of Data: One-Way and Two-Way tables,

Presentation of Data: Diagrams-Simple, Multiple, Subdivided and percentage bar diagrams, pie diagrams, pictogram and Cartogram, Graphs-Frequency curve, Frequency Polygon, Ogives and Histogram.

Unit-V: STATISTICAL METHOD-II


PRACTICAL-30 Marks

3 Hours Duration

The candidate is required to answer any four out of six questions to be set. Each question carries six marks. The Practical Records should be maintained in blue/black ball pen only.


Books Recommended:

Bureau’s Higher Secondary (+2) Statistics, Part-1, Published by Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar

+2 SECOND YEAR ARTS

(To be Covered in Second Year, Class-XII)

Theory: 70 Marks

3 Hours Duration

Unit-I: STATISTICAL METHODS-III

Unit-II: PROBABILITY DISTRIBUTIONS

Bernoulli, Binomial and Poisson Distributions with properties and applications (derivation of mean and variance only). Normal distribution, its properties and applications (mathematical proofs excluded). Concept of Testing of hypothesis, large sample tests based on normal distribution (mean, variance and proportion).

Unit-III: SAMPLING METHODS


Unit-IV: TIME SERIES


Unit-V: INDEX NUMBERS

Need meaning and uses of Index Numbers, Important steps in the construction of index number, Problems in the selection of items. Idea of base year and Current Year, Average System of Weighing. Weighted index number: Laspeyre’s, Paasche’s and Fisher’s ideal index numbers. Unit, lime Reversal, Factor Reversal and Circular Tests. Base shifting splicing and defeating of index numbers. Cost of living index numbers—construction and uses.

PRACTICA.T.-30 Marks

3 Hours Duration

The candidate is required to answer any three out of five questions to be set. Each question carries eight marks. The Practical Records should be maintained in blue/black ball pen only.

Measurement of trend by moving averages and by Least Square (Straight line only) method. Measurement of seasonal fluctuations (simple average, Ratio to moving averages, Ratio to trend and link relative methods). Computation of index numbers by weighted average of price relatives: Laspeyre’s, Paasche’s and Fisher’s Formula: Coefficient of Correlation, Coefficient of Regression

Books Recommended:

Bureau’s Higher Secondary (+2) Statistics, Part-I & II, Published by Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar
MATHEMATICS (+2 2\textsuperscript{nd} year)
Course Structure

<table>
<thead>
<tr>
<th>Unit</th>
<th>Topic</th>
<th>Marks</th>
<th>No. of Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Relations and Functions &amp; Linear Programming</td>
<td>20</td>
<td>45</td>
</tr>
<tr>
<td>II</td>
<td>Algebra and Probability</td>
<td>20</td>
<td>45</td>
</tr>
<tr>
<td>III</td>
<td>Differential Calculus</td>
<td>20</td>
<td>45</td>
</tr>
<tr>
<td>IV</td>
<td>Integral Calculus</td>
<td>20</td>
<td>45</td>
</tr>
<tr>
<td>V</td>
<td>Vector 3-D Geometry</td>
<td>20</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>100</td>
<td>220</td>
</tr>
</tbody>
</table>

General Instructions:

1. All questions are compulsory in Group A, which are very short answer type questions. All questions in the group are to be answered in one word, one sentences or as per exact requirement of the question. (1\times10=10 \text{ Marks})

2. Group-B contains 5(five) questions and each question have 5 bits, out of which only 3 bits are to be answered (Each bit caries 4 Marks) (4 \times15=60 \text{ Marks})

3. Group-C contains 5(five) questions and each question contains 2/3 bits, out of which only 1(one) bit is to be answered. Each bit caries 6(six) Mark (6\times5 =30 \text{ Marks})

UNIT - I : Relations and Functions

1. Relations and Functions
   Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of function. Binary operations.

2. Inverse Trigonometric Functions
   Definition, range, domain, principle value branch. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

3. Linear Programming
   Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded and unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).
UNIT - II : Algebra

1. Matrices

Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices; Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).

2. Determinants

Determinant of a square matrix (up to 3 × 3 matrices), properties of determinants, minors, cofactors and applications of determinants in finding the area of a triangle, Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.

3. Probability

Conditional probability, multiplication theorem on probability. Independent events, total probability, Baye’s theorem, Random variable and its probability distribution, mean and variance of random variable. Independent (Bernoulli) trials and Binomial distribution.

UNIT-III : Differential Calculus

1. Continuity and Differentiability

Continuity and differentiability, derivative of composite functions, chain rule, derivatives of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions.

Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives. Rolle’s and Lagrange’s Mean Value Theorems (without proof) and their geometric interpretation.

2. Applications of Derivatives

Applications of derivatives : rate of change of bodies, increasing and decreasing functions, tangents and normals, use of derivatives in approximation, maxima and minima (first derivative test motivate geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations).

UNIT-IV Integral Calculus

1. Integrals

Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them.
\[ \int \frac{dx}{x^2 + a^2}, \int \frac{dx}{x^2 - a^2}, \int \frac{dx}{a - x}, \int \frac{dx}{ax + bx + c} \]
\[ \int \frac{dx}{ax^2 + bx + c}, \int \frac{px + q}{ax^2 + bx + c} dx, \]
\[ \int \frac{p x + q}{a x^2 + b x + c} dx, \int \sqrt{a^2 + x^2} dx, \]
\[ \int \sqrt{x^2 - a^2} dx, \int \sqrt{ax^2 + bx + c} dx, \int (px + q) \sqrt{ax^2 + bx + c} dx \]

Definite integrals as a limit of a sum, Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.

2. Applications of the Integrals

Applications in finding the area under simple curves, especially lines, circles/parabolas/ellipses (in standard form only). Area between any of the two above said curves (the region should be clearly identifiable).


Definition, order and degree, general and particular solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type:

\[ \frac{dy}{dx} + py = q \text{, where } p \text{ and } q \text{ are functions of } x \text{ or constants.} \]
\[ \frac{dx}{dy} + px = q \text{, where } p \text{ and } q \text{ are functions of } y \text{ or constants.} \]

UNIT - V: Vectors and Three-Dimensional Geometry

1. Vectors

Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors, scalar triple product of vectors, Coplanarity of three vectors.

2. Three-dimensional Geometry

Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a plane.
Books Recommended:
Bureau’s Higher Secondary (+2) Elements of Mathematics, Part-II, Published by Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar.

SYLLABUS
MATHEMATICS (+2 First Year)

Course Structure

<table>
<thead>
<tr>
<th>Unit</th>
<th>Topic</th>
<th>Marks</th>
<th>No. of Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Sets and Functions</td>
<td>29</td>
<td>60</td>
</tr>
<tr>
<td>II</td>
<td>Algebra</td>
<td>37</td>
<td>70</td>
</tr>
<tr>
<td>III</td>
<td>Co-ordinate Geometry</td>
<td>13</td>
<td>40</td>
</tr>
<tr>
<td>IV</td>
<td>Calculus</td>
<td>06</td>
<td>30</td>
</tr>
<tr>
<td>V</td>
<td>Mathematical Reasoning</td>
<td>03</td>
<td>10</td>
</tr>
<tr>
<td>VI</td>
<td>Statistics and Probability</td>
<td>12</td>
<td>30</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
<td><strong>240</strong></td>
</tr>
</tbody>
</table>

UNIT - I : Sets and Functions
1. Sets
Sets and their representations. Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations), Power set, Universal set, Venn diagrams, Union and Intersection of sets, Difference of sets, Complement of a set, Properties of Complement of Sets, Practical Problems based on sets.

2. Relations & Functions
Ordered pairs, Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the sets of real (upto R × R). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain co-domain and range of a function. Real valued functions, domain and range of these functions: Constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer function, with their graphs. Sum, difference, product and quotients of functions.

3. Trigonometric Functions
Positive and negative angles. Measuring angles in radians and in degrees and conversion of one into other. Definition of trigonometric functions with the help of unit circle. Truth of $\sin^2x + \cos^2x = 1$, for all $x$. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple application. Deducing identities like the following:
Identities related to \( \sin 2x \), \( \cos 2x \), \( \tan 2x \), \( \sin 3x \), \( \cos 3x \) and \( \tan 3x \). Trigonometric equations

Principal solution, General solution of trigonometric equations of the type \( \sin x = \sin y \), \( \cos x = \cos y \) and \( \tan x = \tan y \). Proof of Simple applications of sine and cosine formula.

UNIT-II : Algebra

1. **Principle of Mathematical Induction**
   Process of the proof by induction, motivation the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

2. **Complex Numbers and Quadratic Equations**
   Need for complex numbers, especially \( \sqrt{-1} \), to be motivated by inability to solve some of the quadratic equations; Algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations in the complex system. Square root of a complex number, cube roots of unity and its properties.

3. **Linear Inequalities**
   Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Graphical solution of system of linear inequalities in two variables.

4. **Permutations and Combinations**
   Fundamental principle of counting, factorial \( n! \), Permutations and combinations, derivation of formulae and their connections, simple applications.

5. **Binomial Theorem**
   History, statement and proof of the binomial theorem for positive integral indices. Pascal’s triangle, General and middle term in binomial expansion, simple applications.

6. **Sequence and Series**
   Sequence and Series, Arithmetic Progression (A.P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P, sum of \( n \) terms of a G.P., Arithmetic and Geometric series, infinite G.P. and its sum, geometric mean (G.M.), Harmonic (mean) relation between A.M., GM. and H.M., Formula for the following special sum:

   \[
   \text{Arithmetico-Geometric Series, Exponential Series, Logarithmic Series, Binomial Series.}
   \]

UNIT - III : Co-ordinate Geometry

1. **Straight Lines**
   Brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between
two lines. Various forms of equations of a line: parallel to axis, point-slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line, Shifting of Origin.

2. **Conic Sections**
Sections of a cone: circles, ellipse, parabola, hyperbola; a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section; Standard equations and simple properties of Circle, parabola, ellipse and hyperbola.

3. **Introduction to Three-dimensional Geometry**
Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.

**UNIT-IV: Calculus**

1. **Limits and Derivatives**
Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions, trigonometric, exponential and logarithmic functions. Definition of derivative, relate it to slope of tangent of a curve, derivative of sum, difference, product and quotient of functions. The derivative of polynomial and trigonometric functions.

**UNIT-V: Mathematical Reasoning**

1. **Mathematical Reasoning**
Mathematically acceptable statements. Connecting words/phrases-consolidating the understanding of “if and only if (necessary and sufficient) condition,” “implies”, “and/or”, “implied by”, “and”, “or”, “there exists” and their use through variety of examples related to real life and Mathematics. Validating the statements involving the connecting words, difference between contradiction, converse and contrapositive,

**UNIT-VI: Statistics and Probability**

1. **Statistics**
Measures of dispersion; Range, mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

2. **Probability**
Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, ‘not’, ‘and’ and ‘or’ events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with the theories of earlier classes. Probability of an event. Probability of ‘not’, ‘and’ ‘or’ events.

**Books Recommended:**
Bureau’s Higher Secondary (+2) Elements of Mathematics, Part-I, Published by Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar.
SOCILOGY

Sociology is introduced as an elective subject at the Higher Secondary Education. This subject studies the processes and patterns of individual and group interaction, the forms of organization of social groups, the relationships among them, and group influences on individual behavior. It has focused on the understanding of group or other collective factors in human behavior. This syllabus is designed to help the learners to know about the society and develop a constructive attitude towards different facets of life.

Objectives:
1. To enable learners to relate classroom teaching to their outside environment,
2. To introduce them to the basic concepts of sociology that would enable them to observe and interpret social life,
3. To make them aware of the complexity of social processes.
4. The overall objective of this syllabus is to provide learners with a knowledge and understanding of the main sociological theories, concepts and methods.

Distribution of Marks will be as follows: (Total Marks-100)

GROUP-A (Objective Type-Compulsory)

Q.1 Multiple Choice
(From all Units)
1 mark each x 5 marks = 15 marks

Q.2 One word answer/
(From all Units)
Very short answer/ Correct the sentence/
Filling of the blanks
1 mark each x 15 marks = 15 marks

GROUP-B (Short type Answer)

Q.3 Answer within Two/Three sentences
(Out of 14 bits, one has to answer 11 bits)
2 marks each x 1 l = 22 marks

Q.4 Answer within six sentences
(Out of 8 bits, one has to answer 6 bits)
3 mark each x 6 = 18 marks

GROUP-C (Long Answer Type)

Q.5 (out of 6 Questions from all units, one has to answer 4 questions)
7.5 marks each x 4 = 30 marks

SOCIOLOGY
Paper- I

Introducing Sociology

Unit - I Sociology & Its Relationship
Emergence, Meaning, Nature and Scope
Relationship of Sociology with Social Sciences - History, Economics, Anthropology, Psychology, Political Science.

<table>
<thead>
<tr>
<th>Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>
Unit - II  Basic Concepts
  • Society - Meaning and Characteristics, Individual and Society  2
  • Community - Meaning and Characteristics  2
  • Association - Meaning & Characteristics  2
  • Social Group - Meaning and Characteristics, Types Primary, Secondary In-Group, Out-Group  3
  • Culture - Meaning, Characteristics, Types - Material, Non-Material, Importance  3

Unit - III  Social Institutions
  • Family - Meaning, Characteristics, Types, Functions  3
  • Kinship - Meaning, Characteristics, Types  3
  • Education - Meaning, Importance  3
  • Economic - Property, Division of Labour  3

Unit - IV  Process, Stratification and Change
  • Social Processes :
    Associative - Co-operation, Accommodation / Dissociative- Conflict  5
    Social Stratification - Meaning, Characteristics, Bases - Caste, Class, Gender  5
    Social Change - Meaning, Characteristics/ Factors - Technological Cultural  5

Unit - V  Sociology, Methods and Techniques
  • Auguste Comte : Law of Three Stages  2
  • Emile Durkheim : Suicide  2
  • G.S. Ghurey : Caste  2
  • M.N. Srinivas : Sanskritisation  2
  • Methods : Observation - Meaning and Types  2
  • Tools and Techniques : Questionnaire and Schedule - Meaning, Merits and Demerits  4

BOOK PRESCRIBED:
1. Bureau's Higher Secondary (+2) Sociology, Part-I Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.
2. Sociology, Part-I, NCERT

SOCIOLOGY
  Paper- II
  Indian Society

Unit - I  Introducing Indian Society
  • Composition of Indian Society - Demographic, Geographical, Racial, Linguistic, Religious, Tribal  8
  • Unity & Diversity - Factors of Unity & Diversity  4
Unit - II  Indian Social Structure
- Caste System - Meaning, Characteristics, Functions, Dysfunctions, Recent Changes, Caste and Class 8
- Hindu Joint family - Meaning, Characteristics Merits, Demerits, Recent Changes 5
- Village Community - Meaning and Characteristics/ Rural -Urban Linkages and Divisions 3

Unit - III  The Challenges of Cultural Diversity
- National Integration : Concept and obstacles - Communalism, Regionalism, Casteism, Terrorism 2

Unit-IV  Social Inequality, Exclusion and Movement
- Caste and Social Inequality 1
- Class and Social Inequality 1
- Marginalized Classes : Scheduled Castes, Scheduled Tribes, Constitutional Safeguards 4
- Tribal Movements 2
- Peasant Movements 2

Unit-V  Change and Development in India
- Industrialization - Meaning, Characteristics, Impact 3
- Urbanization - Meaning, Characteristics, Impact 3
- Modernization - Meaning, Characteristics, Impact 3
- Globalization - Meaning, Characteristics, Impact 3

BOOK PRESCRIBED:
1. Bureau's Higher Secondary (+2) Sociology, Part-II Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.
2. Sociology, Part-II, NCERT
# GEOGRAPHY (THEORY)

**QUESTION PAPER DESIGN**

+2 FIRST YEAR (ARTS/SC)

**3 HOURS**

**Total Marks : 70**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Typology of questions</th>
<th>Learning Outcomes &amp; Testing Skills</th>
<th>Short Answer (1 Mark)</th>
<th>Short Answer (3 Marks)</th>
<th>Long Answer (5 Marks)</th>
<th>Map Skills based (5 Marks)</th>
<th>Marks</th>
<th>%age</th>
</tr>
</thead>
</table>
| 1.      | Remembering- (Knowledge based simple recall questions to know specific facts, terms, concepts, principles, or theories, Identify, define or recite information), Map skill based questions (Identification, location) | • Reasoning  
• Analytical Skills  
• Critical thinking | 3 | 1 | 1 | 1 (Identify location) | 16 | 23% |
| 2.      | Understanding- (Comprehension- to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information) | 1 | 1 | 2 | | 14 | 20% |
| 3.      | Application-(Use abstract information in concrete situation, to apply knowledge to new situations; Use given content to interpret a situation, provide and example, or solve a problem) | 1 | 1 | 2 | | 13 | 19% |
| 4.      | High Order Thinking Skill- (Analysis and synthesis-Classify, compare, contrast or differentiate between different pieces of information; Organise and/or integrate unique pieces of information from a variety of sources)(Includes map interpretation) | 2 | 1 | 2 | 1 (Map interpretation) | 20 | 28% |
**Arts Stream**

### Typology of questions

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Typology of questions</th>
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<th>Long Answer (5 Marks)</th>
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<th>Marks</th>
<th>%age</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Evaluation and Multi-Disciplinary -(Appraise, judge, and/or justify the value or worth of a decision or outcome, or to predict outcomes based on values)</td>
<td>1</td>
<td>1+1 (Value based)</td>
<td>70 (22) Practical 30</td>
<td>10%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total</th>
<th>1 × 1 = 7</th>
<th>6 × 3 = 18</th>
<th>7 × 5 = 35</th>
<th>2 × 5 = 10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>70%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Estimated</th>
<th>15 min.</th>
<th>60 min.</th>
<th>70 min.</th>
<th>20 min.</th>
<th>165 + 15 = 180 min</th>
</tr>
</thead>
</table>

**Note:** No chapter wise weightage, care to be taken to cover chapters in books.

The question paper will include a section on **Open Text - based Assessment** of 10 marks from Unit-5 (Part I). No other question will be asked from this unit. The open text material on this unit will be supplied to students in advance. These materials are designed to test the analytical and higher order thinking skills of students. The OTBA will be asked in the final examination.

---

**GEOGRAPHY SYLLABUS**

**+2 2ND YEAR (ARTS/SC)**

**Course Structure**

<table>
<thead>
<tr>
<th>Part/Unit</th>
<th>Topic of Chapter</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Fundamentals of Human Geography</td>
<td>35</td>
</tr>
<tr>
<td>Unit-1</td>
<td>Human Geography</td>
<td></td>
</tr>
<tr>
<td>Unit-2</td>
<td>People</td>
<td></td>
</tr>
<tr>
<td>Unit-3</td>
<td>Human Activities</td>
<td></td>
</tr>
<tr>
<td>Unit-4</td>
<td>Transport, Communication and Trade</td>
<td></td>
</tr>
<tr>
<td>Unit-5</td>
<td>Human Settlements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Map Work</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>India: People and Economy</td>
<td>35</td>
</tr>
<tr>
<td>Unit-6</td>
<td>People</td>
<td></td>
</tr>
<tr>
<td>Unit-7</td>
<td>Human Settlements</td>
<td></td>
</tr>
<tr>
<td>Unit-8</td>
<td>Resources and Development</td>
<td></td>
</tr>
<tr>
<td>Unit-9</td>
<td>Transport, Communication and International Trade</td>
<td></td>
</tr>
<tr>
<td>Unit-10</td>
<td>Population, settlements, resources and</td>
<td></td>
</tr>
</tbody>
</table>
A. FUNDAMENTALS OF HUMAN GEOGRAPHY 90 Periods

Unit 1: Human Geography: Nature and Scope 05 Periods

Unit 2: People 18 Periods

Population-distribution, density and growth
Population change- spatial patterns and structure; determinants of population change;
Age-sex ration; rural-urban composition;
Human development- Concept, selected indicators, international comparisons

Unit 3: Human Activities 28 Periods

Primary activities- Concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; People engaged in agriculture and allied activities- Some examples from selected countries. Secondary activities- Concept; Manufacturing : types- household, small scale, large scale; agro based and mineral based industries; people engaged in secondary activities- some example from selected countries Tertiary activities- Concept; Trade, transport and tourism; Services; People engaged in tertiary activities- some examples from selected countries
Quaternary activities- concept; people engaged in quaternary activities- case study from selected countries

Unit 4: Transport, Communication and Trade 23 Periods

Land Transport- Road, Railways; Trans-continental railways Water Transport- In-land waterways; major ocean routes Air Transport- Intercontinental air routes Oil and gas pipelines
Satellite communication and cyber space- importance and usage for geographical information; use of GPS International Trade- Bases and changing patterns; ports and gateways of international trade, role of WTO in international trade.
Ocean National rights and international treaties

Unit 5: Human Settlements 10 Periods

 Settlement types- rural and urban, morphology of cities(case study); distribution of mega cities, problems of human settlements in developing countries

Map Work 05 Periods

Map work on identification of features based on 1-5 Units of outline/physical/political map of World

B. INDIA; PEOPLE AND ECONOMY 90 Periods

Unit 6: People 15 Periods

Population: Distribution, density and growth; composition of population- linguistic, religious,

Unit 7: **Human Settlements** 10 Periods
Rural Settlements- types and distribution
Urban Settlements- types, distribution and functional classification

Unit 8: **Resources and Development** 30 Periods
Land Resources- general land use; agriculture land use, Geographical conditions and distribution of major crops(wheat, rice, tea, coffee, cotton, jute, sugarcane, rubber), agriculture development and problems. Water Resources- availability and utilisation-irrigation, domestic, industrial and other uses; scarcity of water and conservation methods-rain water harvesting and water shade management.

Mineral and energy resources- Distribution of metallic (Iron ore, Copper, Bauxite, Manganese); Non metallic(Mica, salt), minerals; conventional (coal, petroleum, natural gas and hydroelectricity) and non-conventional energy sources (solar, wind, biogas) and conservation

Industries- Types, factor of industrial location; distribution and changing pattern of selected industries- iron and steel, cotton textile, sugar, petrochemicals, and knowledge based industries; impact of liberalisation, privatisation and planning in India- target group area planning (case study); idea of sustainable development (case study)

Unit 9: **Transport, communication and international trade** 15 Periods
Transport and communication- roads, railways, waterways and airways: Oil and gas pipelines; geographical information and communication networks.

Unit 10: **Population, settlement, resources & transport of Odisha** 15 Periods
Distribution of population
Rural and Urban settlements
Mineral Resources (Iron, Buxite, Coal) forest resources
Road and rail transport

**Map Work 05 Periods**
Map work on locating and levelling of features based on above units on outline map of India

C. **Practical Work** 40 Periods
- Unit 1: Processing of data and thematic mapping  25 Periods
- Unit 2: Field study of Spatial Information Technology 15 Periods
- Unit 3: Practical Record Book and Viva Voce

GEOGRAPHY
+2 SECOND YEAR (ARTS / SC)

**Theory - One paper**

<table>
<thead>
<tr>
<th>PART-A</th>
<th>FUNDAMENTALS OF HUMAN GEOGRAPHY 35 Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT-1</td>
<td>Human Geography</td>
</tr>
<tr>
<td>UNIT-2</td>
<td>People</td>
</tr>
<tr>
<td>UNIT-3</td>
<td>Human Activities</td>
</tr>
</tbody>
</table>

Time: 3 hrs
Marks: 70
UNIT-4 Transport, Communication and Trade
UNIT-5 Human Settlements
Map Work - World Map (for identification only relating to Unit 1 to 5)

TOTAL

PART-B INDIA - PEOPLE AND ECONOMY 35
UNIT-6 People
UNIT-7 Human Settlements
UNIT-8 Resources and Development 30
UNIT-9 Transport, Communication and International Trade
UNIT-10 Geographical Perspective on selected issues and problems
Map Work 5
TOTAL 35
GRAND TOTAL 70

Note: Value Based Question from any Unit 1-10

Weightage to Difficulty Level

<table>
<thead>
<tr>
<th>Estimated Difficulty Level</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Easy(E)</td>
<td>20%</td>
</tr>
<tr>
<td>(ii) Average(AV)</td>
<td>60%</td>
</tr>
<tr>
<td>(iii) Difficult(D)</td>
<td>20%</td>
</tr>
</tbody>
</table>
# GEOGRAPHY (THEORY)
## QUESTION PAPER DESIGN
### +2 SECOND YEAR (ARTS/SC)

**3 HOURS**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Typology of questions</th>
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<tr>
<td>1.</td>
<td>Remembering- (Knowledge based simple recall questions to know specific facts, terms, concepts, principles, or theories; Identify, define or recite information), Map skill based questions (Identification, location)</td>
<td>• Reasoning</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1 (Identify location)</td>
<td>16</td>
<td>23%</td>
</tr>
<tr>
<td>2.</td>
<td>Understanding (Comprehension- to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information)</td>
<td></td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
<td>14</td>
<td>20%</td>
</tr>
<tr>
<td>3.</td>
<td>Application-(Use abstract information in concrete situation, to apply knowledge to new situations; Use given content to interpret a situation, provide and example, or solve a problem)</td>
<td></td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
<td>13</td>
<td>19%</td>
</tr>
<tr>
<td>4.</td>
<td>High Order Thinking Skill- (Analysis and synthesis-Classify, compare, contrast or differentiate between different pieces of information; Organise and/or integrate unique pieces of information from a variety of sources)(Includes map interpretation)</td>
<td></td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1 (Map interpretation)</td>
<td>20</td>
<td>28%</td>
</tr>
</tbody>
</table>
EDUCATION ELECTIVE
(First Year)
Theory - 70 marks & Practical - 30 marks.
Theory Paper - I
FOUNDATIONS OF EDUCATION - I

Unit I : Fundamentals of education.  
20 periods
Meaning of education
Aims of education- Individual, Social, Democratic,& Vocational, Functions of education
Agencies of education- Formal, Informal, Non-formal; Active & Passive.
Role of Family, School, Community & Mass media as agencies of education.

Unit II: Fundamentals of educational psychology.  
20 periods
Meaning, Nature & Scope of educational psychology.
Importance of educational psychology for the teacher.
Growth & Development - Meaning, General Principles, & factors affecting Growth &
development.
Stages of growth & development - Physical, Intellectual, Social, & Emotional
growth & development during Infancy, Childhood, & Adolescence.

Unit III: Education & Society  
20 periods
Relationship between education & society.
Education for social change & social Control.
Education for social mobility.
Education for citizenship & socialization.
Gender disparity & the role of education.
Globalization & its impact on education.

Unit IV : Methods of teaching.  
20 periods
(Any one of the following method subjects English, Odia, Mathematics,
History, Geography, & General Science.)
Aims & Objectives
Methods of teaching applicable for elementary level.
Teaching Learning Materials (TLM): purpose & use.
General principles & Maxims of teaching.
Objective based and objective type of test items: meaning & principles of construction.

PRACTICAL (60 periods)
A - Preparation of five lesson plans in the selected method subject.  30 periods
B - Preparation of fifteen objective type test items, 5 each pertaining to knowledge, comprehension & skill objectives on a particular topic of the selected method subject. 30 periods

**BOOKS RECOMMENDED:**
1. Bureau Uchcha Madhyamik Siksha (in Odia)
2. Bureau’s Higher Secondary Education I.

**EDUCATION ELECTIVE**
(Second Year) Theory - 70 marks & Practical - 30 marks.

Theory Paper - II

**FOUNDATIONS OF EDUCATION - II**

**Unit I : Contribution of educators:** 20 periods
- Mahatma Gandhi
- Pandit Gopabandhu Das
- Sri Aurobindo
- Jean Jacques Rousseau
- John Dewey

**Unit II: Learning & Motivation** 20 periods
Meaning, nature and factors of learning.
- Theories of learning: Trial & Error theory, and Laws of learning.
- Classical conditioning theory
- Insightful learning
- Observational learning
Learning as construction of knowledge.
Motivation in learning - meaning, types & techniques of motivation.

**Unit III: Current Issues in Education.** 20 periods
- Universalization of Elementary Education (UEE) & RTE.
- Education for national integration & International understanding.
- Environmental education.
- Value education & Human rights education.
- Information & Communication Technology (ICT) in Education.
- Life skills education.

**Unit IV : Educational Statistics.** 20 periods
- Statistics: meaning, nature & uses.
- Frequency distribution.
- Graphical representation of data: Histogram, Polygon, & Pie-chart.
• Measures of central tendency: Mean, Median, & Mode- meaning, calculation & uses.

**PRACTICAL** (60 periods)
(To be examined by both external & internal examiners).

A. Practice teaching of five lessons in class room in the selected subject. (30 periods)
B. Preparation of five improvised teaching aids relating to the five lesson plans along with the improvised teaching aids records. (30 periods)

For final Practical examination the student shall deliver one lesson in his/her method subject. Practice teaching records & Improvised teaching aids records are to be submitted during the final examination.

**BOOKS RECOMMENDED:**
1. Bureau Uchcha Madhyamik Siksha 2 (in Odia)
2. Bureau’s Higher Secondary Education II.

Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.
<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>TESTING COMPETENCIES/COMPONENTS AND BASE OF TESTING</th>
<th>LEARNING OUTCOMES</th>
<th>MULTIPLE-CHOICE TYPE (MC) 1 Mark (10)</th>
<th>FILL IN THE BLANKS TYPE (FB) 1 Mark (10)</th>
<th>VERY SHORT ANSWER TYPE (VSA) 2 Marks (8)</th>
<th>SHORT ANSWER TYPE (SA) 4 Marks (4)</th>
<th>LONG ANSWER TYPE (LA) 6 Marks (3)</th>
<th>TOTAL MARKS</th>
<th>WEIGHT -AGE IN%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>KNOWLEDGE BASED: (Remembering - Recall &amp; Recognise i.e. to know specific facts, terms, concepts, principles or theories, to identify, define, or recite facts)</td>
<td>To develop:</td>
<td>3 (3 x 1 = 3)</td>
<td>2 (2 x =2)</td>
<td>1 (1x2= 2)</td>
<td>2 (2 x 4= 8)</td>
<td>1 (1 x 6= 6)</td>
<td>21</td>
<td>30%</td>
</tr>
<tr>
<td>2</td>
<td>UNDERSTANDING BASED: (Comprehension - Seeing Relationship, Citing examples, Discriminate, Classify, Compare, Contrast, Examine, Interprets, Verify, Generalise facts)</td>
<td>KNOWLEDGE, UNDERSTANDING, APPLICATION</td>
<td>3 (3 x 1 = 3)</td>
<td>2 (2 x 1 = 2)</td>
<td>1 (1 x 2= 2)</td>
<td>2 (2x4=8)</td>
<td>1 (1 x 6= 6)</td>
<td>21</td>
<td>30%</td>
</tr>
<tr>
<td>3</td>
<td>APPLICATION BASED: (Use abstract information in concrete situation, Apply knowledge to new situations, Use given content to interpret a situation, Provide an example to solve a problem)</td>
<td>REASONING, ANALYTICAL SKILLS, CRITICAL THINKING SKILLS, EVALUATION etc.</td>
<td>2 (2x1= 2)</td>
<td>2 (2 x 1 = 2)</td>
<td>2 (2 x 2=4)</td>
<td>-</td>
<td>1 (1 x 6= 6)</td>
<td>14</td>
<td>20%</td>
</tr>
<tr>
<td>4</td>
<td>HIGH ORDER THINKING SKILLS BASED: (Analysis &amp; Synthesis - Classify, Compare, Contrast or Differentiate between different pieces of information, Organize and/or integrate unique pieces of information from a variety of sources)</td>
<td></td>
<td>1 (1 x 1 = 1)</td>
<td>2 (2 x 1 = 2)</td>
<td>2 (2 x 2=4)</td>
<td>-</td>
<td>-</td>
<td>07</td>
<td>10%</td>
</tr>
<tr>
<td>5</td>
<td>EVALUATION BASED: (Appraise, Judge, Justify the value or worth of a decision or outcomes)</td>
<td></td>
<td>1 (1 x 1 = 1)</td>
<td>2 (2 x 1 = 2)</td>
<td>2 (2 x 2=4)</td>
<td>-</td>
<td>-</td>
<td>07</td>
<td>10%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>10 x 1 = 10</strong></td>
<td><strong>10 x 1 = 10</strong></td>
<td><strong>8 x 2 = 16</strong></td>
<td><strong>4x4 = 16</strong></td>
<td><strong>3 x 6 = 18</strong></td>
<td><strong>70 (35)</strong></td>
<td><strong>100 %</strong></td>
</tr>
</tbody>
</table>
UNIT-I

a) Definition and scope of anthropology, Major Branches of Anthropology, Inter relationship with other disciplines, (Sociology, Psychology, History, Economics, 30 Periods Political Science, Geology).

b) Definition and Scope of Prehistoric Archaeology, Geological Time Scale
   Dating Techniques: Relative Dating - Stratigraphy, Glacial, Verves, River Terrace, Typology, State of Preservation
   Absolute Dating - Radio Carbon, Dendrochronology, Palynology
   Tool Type: Chopper, Chopping Tool, Cleaver, Handaxe, Point, Scraper, Blade, Microliths, Axe, Adze
   Bone Tools: Needle, Harpoon, Fish Hook, Arrow straighteners, Lancets, Dart Thrower.
   Tool Techniques: Block-on-Block Technique, Stone Hammer Technique, Cylinder Hammer Technique, Pressure Flaking Techniques, Grinding and Polishing Techniques.

UNIT-II

   Magical Practices: Sorcery and Witch Craft,
   Magico Religious Functionaries: Shaman and Priest
   Comparision of Magic, Religion and Science

b) Social Stratification: Class, Caste and Varna, Criteria of Class Distinctions, Caste System in India, Features and Functions, Changes in Caste System in modern India.

c) Primitive Law and Political Organization, Definition of Law, Supernatural Legal Devices-Divination, Conditional Curse, Ordeal and Oath.

d) Political Organization in primitive society: Uncentralized socio political system-Band and Tribes, Centralized socio political system-Chieftdom and State.

UNIT-III

PRACTICAL

Full Mark-30

I) Drawing and description of the following lithic tools (Total Ten Tools) 10 Marks
   a) Paleolithic 6 Periods
   b) Mesolithic
   c) Neolithic

II) Census-students are required to submit filled in household census schedule 10 Marks from five households 6 Periods

Or

Museum Study-Students to visit any museum and write a report

III) Practical Record 5 Marks

IV) Viva Voce 5 Marks

SECOND YEAR

THEORY

Full Mark-70

UNIT-1 (SOCIAL ORGANISATION) 25 Marks

a) Tribe : Definition & features, Scheduled Tribes, Major Tribes of Odisha and their distribution, Vulnerable Tribal Groups.

b) Family : Definition, Feature and Functions, Types of Family : on the basis structure, on the basis of residence, on the basis of authority, on the basis of descent.

c) Marriage : Definition, Forms of marriage - monogamy, polygamy (Polygyny and Polyandry), Polygyny - Sororal and Non soraral, Polyandry,Fraternal & Non Fraternal, Familial Polyandry.

Marriage Rules - Exogamy and Endogamy, Hypergamy and Hypogamy, Levirate and Sororate, Cross Cousin and Parallel Cousin marriage, Bride Price and Dowry.

d) Kinship - Definition, category of Kins-Consanguineal and affinal, Degree of Kinship: Primary, secondary & tertiary, Kinship Terminology - Classificatory and Descriptive, Descent and Rules of Descent


e) Associations - Definition, Non voluntary associations, Age set, Unisex Associations, or youth Dormitory, Voluntary Associations, Ethnic Associations, Secret Societies.

UNIT-II (PHYSICAL ANTHROPOLOGY) 25 Mark

UNIT - III (INDIAN PREHISTORY)  

Paleolithic Culture of India, Mesolithic Culture of India, Neolithic Culture of India, Indus Valley Civilization.

PRACTICAL Full

Mark-30  
15 Periods

I) Identification of ABO Blood Group of Ten Individuals  
5 Mark  
5 Periods

OR

Cranio metric Measurement of Five skulls and Mandibles
a) Maximum cranial Length
b) Maximum cranial Breadth
c) Minimum Frontal Breadth
d) Basion Bregma Height
e) Bigonial Breadth

II) Somatometric Measurement of Five individuals  
5 Mark  
5 Periods

a) Maximum Head Length 5 Periods
b) Maximum Head Breadth
c) Bizygomatic Breadth
d) Morphological Facial height
e) Nasal Length
f) Nasal Breadth

III) Osteometry  
10 Mark
Drawing, Labelling description and identification of the following long bones
a) Humerus, Radius, Ulna
b) Femur, Tibia, Fibula
c) Human Skull & Mandible

IV) Practical Record  
5 Mark

V) Viva Voce  
5 Mark

BOOK PRESCRIBED:
Bureau’s Higher Secondary (+2) Anthropology, (Odia) Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.
PSYCHOLOGY
ELECTIVE

Psychology is introduced as an elective subject at the higher secondary stage of education. The course deals with Psychological knowledge and practices which are contextually rooted. It emphasizes the complexity of cognitive and behavioural processes of human beings within socio-cultural context. It encourages critical reasoning, allowing students to appreciate the role of social factors in behaviour and illustrates how biology and experience shape behaviour.

In the second year there will be council examination and the theory paper carries 70 marks and the practical paper carries 30 marks. The question paper pattern for both the papers are same.

QUESTION PAPER PATTERN

Theory Paper:

Group-A : Objective type (Compulsory)
Q.No-1 : Multiple choice (Fill up the blanks from all units) 1 mark each X 10 = 10 marks
Q. No.2 : Statements “True” or “False” 1 mark each X 10 = 10 marks

Group-B : Short Type
Q. No.3 : Short type answer (Answer within two /three sentences) and one has to answer 10 bits out of 12 bits.
2 marks each X 10 = 20 marks
Q. No.4: Short type answer (Answer within six sentences) and one has to answer 3 bits out of 5 bits.
3 mark each X 3 = 09 marks

Group-C : Long Type
Q. No.5 : Question No-5 to Q.No-10 (Questions will be from all the units and one has to answer any three questions) 7 marks each X 3 = 21 marks

PRACTICAL

There will be 4 number of questions and the examinee is to choose/draw 2 number of questions through lottery and is to conduct any one question out of the two questions.

Distribution of marks :
Record - 03
Viva -Voce - 07
Conduction & Report writing - 20
Total marks - 30
UNIT - I

1. What is Psychology?

This chapter seeks to help in understanding and appreciating psychology as a discipline, its application and relationship with other sciences.

   a) Meaning and definition of Psychology
   b) Psychology as a science
   c) Brief idea about the different approaches to the study of Psychology:
      i) Biological
      ii) Behaviouristic
      iii) Cognitive
   d) Psychology and other disciplines (Sociology and Anthropology)

2. Methods used in Psychology

The objective of this chapter is to familiarize with the methods of studying and understanding behaviour

a) Experimental method
b) Observational Method:
   i) Naturalistic Observation
   ii) Subjective observation or Introspection

UNIT - II

3. Physiological bases of behavior:

This chapter focuses on the role of biological factors in the shaping of human behaviour and experience.

   a) Structure and function of neuron
   b) Structure and function of central Nervous system
      i) Spinal cord
      ii) Brain
   c) Autonomic Nervous system
   d) Endocrine system.

4. Sensory and Perceptual Processes:

This unit aims at understanding how various sensory stimuli are received, attended to and given meaning.

   a) Attention: Determinant and types of attention
b) Perception: Meaning, operational definition, processes involved in perception (Receptive, Selective, Symbolic and Affective Process)
c) Principles of perceptual organization
d) Role of need, past experience and cultural factors in perception.
e) Errors in perception: Illusion and Hallucination

UNIT-III

5. Learning
[10]
This chapter focuses on how human beings acquire new behaviour and how changes in behaviour take place.
   a) Meaning and operational definition of learning, Learning as distinguished from maturation and performance.
   b) Processes of learning:
      i) Trial and Error Learning
      ii) Classical conditioning
      iii) Operant conditioning
      iv) Cognitive Learning: Insightful learning
      v) Observational learning

6. Human memory
[12]
This chapter deals with how information is received, stored, retrieved and lost. It also explains how memory can be improved.
   a) Memory Process:
      i) Encoding ii) Storage iii) Retrieval
   b) Systems (stages) of memory:
      i) Sensory Memory ii) Short Term Memory iii) Long Term Memory
   c) Measurement of Memory
      i) Recall ii) Recognition iii) Saving or Relearning
   d) Nature and causes of forgetting:
   e) Improving Memory: Mnemonics, Methods of Loci, Number and Letter Peg system, Chunking

UNIT-IV

7. Motivation and Emotion
[8]
This chapter deals with why human beings behave as they do. It also deals with how people experience positive and negative events and respond to them.
a) Meaning and Nature of Motivation  
b) Types of motives; Biological, Social and Psychological  
c) Meaning and nature of emotion;  
d) Bodily changes during emotion.

8. **Processes of Thinking**  
[10]  
This chapter deals with thinking related processes like reasoning, problem solving, decision making and creative thinking.  
i) Meaning and definition  
ii) Stages of cognitive development by piaget  
iii) Problem solving and decision making  
iv) Creative Thinking: Nature and stages of creative thinking

UNIT-V  

9. **Intelligence**  
[7]  
This chapter aims at studying how people differ with respect to intelligence.  
a) Meaning and Nature of Intelligence  
b) Approaches to understand intelligence (i) Gardner (ii) Sternberg (iii) J.P. Das  
c) Factors influencing intelligence

**PRACTICAL**  
1. Span of Attention  
2. Optical Illusion (Muller-Lyer Illusion)  
3. Sensory-Motor Learning  
4. Memory for meaningful words and nonsense syllables

**Books Recommended:**  
1. Psychology Part - 1, NCERT  
2. Bureau’s Higher secondary +2 Psychology, Part-1,  
   Published by Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar.
PSYCHOLOGY IN APPLICATION
SECOND YEAR

Total Marks - 100
Theory - 70 marks
Practical - 30 marks

THEORY

UNIT-I

1. **Life span development**
   
   This chapter deals with variations in development and the developmental tasks across the life span.
   
   a) Meaning of development - Life span perspective
   b) Principles of development
   c) Stages of development: Pre-natal stage, Infancy, childhood stage, Adolescence, Adulthood and old age.

2. **Self and Personality**
   
   This chapter focuses on the study of self and personality in the context of different approaches in an effort to appraise the person. The assessment of personality will also be discussed.
   
   a) Concept of self and personality
   b) Personality types and traits
   c) Assessment of Personality

UNIT-II

3. **Stress: Meeting life challenges**

   This chapter deals with the nature of stress and strategies to cope with stress.
   
   b) Coping strategies to deal with stress.

4. **Physical environment and behaviour.**

   This chapter focuses on the application of psychological understanding of human-environment relationship.
   
   a) Human impact on environment: Noise Pollution, Crowding, Natural disaster.
   b) Impact of environment on human behaviour.
UNIT-III
5. Group Processes and leadership.
This chapter deals with the concept of group and the role of the leader in a group.
   a) Groups: Nature, types and formation.
   b) Leadership: Nature, functions and styles of leadership.

6. Counselling Processes
This chapter focuses on helping the client in living a meaningful and fulfilling life.
   a) Meaning and concept of counselling; Goals of counselling.
   b) Characteristics of an effective counsellor.

UNIT-IV
7. Psychological disorder
This chapter discusses the concept of normality and abnormality and the major psychological disorders.
   a) Concept of normality and abnormality, criteria of studying abnormal behaviour
   b) Causal factors associated with abnormal behaviour.
   c) Major Psychological disorders: Anxiety disorders, somatoform disorder and mood disorders.

8. Therapeutic Approaches
This chapter discusses the purpose and processes to treat Psychological disorders:
   a) Nature and Processes of therapy
   b) Types of therapy: Psychotherapy, Behaviour therapy, Cognitive therapy and Biomedical therapy.

UNIT-V
9. Statistics in Psychology
This chapter deals with some basic statistical methods to be used in psychological studies.
   a) Frequency distribution
   b) Measures of Central Tendency: Computation and uses of mean, median and mode.

PRACTICALS
1. RCPM (Children) / RPM (Adults)
2. Case History Method (Preparation of at least one case profile)
3. Personality Test (Type A/B)
4. Piagetian Task (Conservation of Liquid Quantity)

Books Recommended:
1. Bureau’s Higher Secondary +2 Psychology Part I and Part-II
   Published by Odisha State Bureau of Test Book Preparation and Production, Bhubaneswar.
2. NCERT, Part-I & II
HOME SCIENCE

Course Structure: +2, 1st year Arts Home Science

<table>
<thead>
<tr>
<th>Unit</th>
<th>Chapter</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Home Management and First Aid</td>
<td>22</td>
</tr>
<tr>
<td>ii.</td>
<td>Food and Nutrition, Health and Hygiene</td>
<td>24</td>
</tr>
<tr>
<td>iii.</td>
<td>Textile and Child Development</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Practical</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>100</td>
</tr>
</tbody>
</table>

+2, 1st year Home Science (Theory)
(Detailed syllabus)
No. of periods: yearly-80

UNIT-I  HOME MANAGEMENT AND FIRST AID

(A) HOME MANAGEMENT: (14 marks)(16 periods)
   b) Meaning, definition and need for home management
   c) Steps in home management—planning, organizing, controlling and evaluating
   d) Meaning, importance and steps in decision making
   e) Resources—Human (knowledge, abilities, skill, energy) and non-human (money, time, movable and immovable properties, goods and services, community facilities)

(B) FIRST AID: (8 marks)(10 periods)
   a) Meaning and aims of first aid
   b) Rules of first aid
   c) Types of bandages (Roller and Triangular)
   d) First aid in drowning, electric shock, burns and foreign bodies in the eye

UNIT-II  FOOD AND NUTRITION, HEALTH AND HYGIENE

(A) FOOD AND NUTRITION (12 marks)(12 periods)
   a) Definition of food, nutrition and health
   b) Classification and functions of food
   c) Basic food groups and their contribution to diet
   d) Food preservation—Definition, need, importance, causes of food spoilage, household methods of food preservation (dehydration, addition of salt, sugar and refrigeration)
(B) HEALTH AND HYGIENE (12 marks)(15 periods)
   a) Infection-sources and modes of infection
   b) Restraint of infection and disinfectants
   c) Diseases transmitted through air and other contacts-chicken pox, measles, mumps, diphtheria, whooping cough, tetanus, malaria, fileria and tuberculosis (causes, mode of spread, incubation period, symptoms and prevention)
   d) Diseases transmitted through sex-AIDs-causes, mode of spread and prevention

UNIT-III TEXTILES AND CHILD DEVELOPMENT

(A) TEXTILES: (12marks)(12 periods)
   a) Classification of fibres: natural and man made
   b) Structure and characteristics of cotton, wool and silk
   c) Types of soaps and detergents
   d) Water-hard and soft water, softening of hard water

(B) CHILD DEVELOPMENT: (12marks)(15 periods)
   a) Importance of child study-Meaning and scope
   b) Prenatal development-conception, signs and symptoms of pregnancy, care during Pregnancy
   c) Stages of prenatal growth and development
   d) Factors influencing prenatal growth and development, such as age of the mother, diet of the mother, drugs, X-Ray, radiation, parental illness, Rh factors, maternal emotional state and attitude.

QUESTION PATTERN AND DISTRIBUTION OF MARKS
HOME SCIENCE (THEORY)

+2 ,1st year Arts (For college level Exam.)

Full marks:70 Time:3hrs

Group- A : Objective type (compulsory)

Q.No.1. Multiple choice (Fill up the blanks from all units) :1 Mark X 10 =10 Marks

Q.No. 2. Statements “True” or “False” : 1 Mark X 10 =10 Marks Group- B : (Short Question Answer)

Q.No. 3. (Answer within two/three sentence, 10 out of 12bits):2 Marks X 10 =20 Marks

Q.No. 4. (Answer within six sentences, 3 out of 5bits): 3 marks X 3 = 09 Marks Group-C : (Long Question Answer)

Q.No. 5 to Q. No. 9
(out of five questions from all units one has to answer three questions): 7marks X 3 = 21 Marks
HOME SCIENCE (PRACTICAL)
+2, 1st year Arts (Detailed syllabus)

UNIT-I FOOD AND NUTRITION:
Planning and preparation of dishes rich in protein, vitamin-A and iron (two items each for lunch/dinner/snacks) (10 marks)

UNIT-II FOOD PREPARATION FOR ENHANCING NUTRITIVE VALUE:
(A) cereal milk combination (5 marks)
(B) cereal, milk and vegetable combination (5 marks) (one item for snacks and one item for meal time)

UNIT-III FIRST AID:
Application of triangular bandages for head and elbow and roller bandages for wrist and knee (5 marks) Practical Record (5 marks)

QUESTION PATTERN AND DISTRIBUTION OF MARKS
HOME SCIENCE (PRACTICAL)
+2, 1st Year Arts
Full Marks: 30 Time: 3 Hrs.

1. Experiment - 25 Marks
2. Record - 5 Marks

Course Structure: +2, 2nd year Arts Home Science

<table>
<thead>
<tr>
<th>Unit</th>
<th>Chapter</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Child Care and Adolescent Development</td>
<td>20</td>
</tr>
<tr>
<td>II.</td>
<td>Nutrition and Physiology</td>
<td>20</td>
</tr>
<tr>
<td>III.</td>
<td>Textile, Money Management and Colour Combination</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Practical</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>100</td>
</tr>
</tbody>
</table>

+2, 2nd year Arts Home Science (Theory)
(Detailed syllabus)
No. of periods: Yearly-80

UNIT-I CHILD CARE AND ADOLESCENT DEVELOPMENT
(A) CHILD CARE(10 marks)(12 periods)
   a) Feeding the baby: breast feeding, artificial feeding, weaning
   b) Care of feeding equipments
c) Immunizations of children
d) Common ailments-teething, diarrhoea, common cold, fever, thrush, wind and colic
e) Causes and prevention of infant and maternal mortality

(B) ADOLESCENT DEVELOPMENT: (10 marks)(8 periods)
a) Meaning, changes and problems (physical and emotional)
b) Role of parents in solving adolescents problems

UNIT-II NUTRITION AND PHYSIOLOGY (A) NUTRITION: (10 marks)(16 periods)
Classification, function, sources requirement and deficiency of following nutrients:
 a) Carbohydrate
 b) Protein
 c) Fat
d) Vitamins (A,D,E,K)
e) B complex vitamins (thiamine riboflavin, niacin)
f) Vitamin-c
g) Minerals (calcium, phosphorous, iron, iodine)

(B) PHYSIOLOGY: (10 marks)(16 periods)
a) Cell: structure and functions
 b) Blood - composition, constituents and functions
c) Digestive System structure of alimentary canal, digestive juices secreted into it, their action on carbohydrates, protein, fat and their absorption
d) Accessory organs in digestion-salivary glands, liver, pancreas and gallbladder (structure and function in brief)

UNIT-III TEXTILE, MONEY MANAGEMENT, COLOUR COMBINATION
(A) TEXTILES: (10 marks)(10 periods)
a) Methods of laundering (rubbing and scrubbing, friction method, kneading and squeezing method, suction method and washing machine) and their principles.
b) Washing and finishing of cotton, wool and silk garments.
c) Stain removal: classification, types and methods of stain removal (tea, grass, grease, curry, blood, ball pen, ink, lipstick and nail polish)

(B) MONEY MANAGEMENT: (10 marks)(8 periods)
a) Types of family income-money income, real income (direct and indirect), psychic income
 b) sources of family income, methods of supplementing family income, procedure for keeping household accounts, meaning and importance of savings

(C) COLOUR COMBINATION: (10 marks)(10 periods)
a) Use of colour in home: colour wheel
 b) principles of colour combination proportion, balance, emphasis, rhythm and harmony
 c) colour combinations relating and contrasting colour schemes d) use of colour in different rooms
QUESTION PATTERN AND DISTRIBUTION OF MARKS
HOME SCIENCE (THEORY)
+2, 2nd year Arts (For H.S Exam.) Full marks: 70 Time: 3 hrs

Group-A: Objective type (compulsory)
Q.No.1. Multiple choice (Fill up the blanks from all units): 1 Mark X 10 = 10 Marks
Q.No. 2. Statements “True” or “False”: 1 Mark X 10 = 10 Marks

Group-B: (Short Question Answer type)
Q.No. 3 (Answer within two/three sentences, 10 out of 12 bits): 2 Marks X 10 = 20 Marks
Q.No. 4 (Answer within six sentences, 3 out of 5 bits): 3 marks X 3 = 09 Marks

Group-C: (Long answer type) Q.No. 5 to Q No. 9
(out of five questions from all units one has to answer three questions): 7 marks X 3 = 21 Marks

HOME SCIENCE (PRACTICAL)
+2 2nd year Arts
(Detailed syllabs)

UNIT-I NEEDLE WORK: (10 marks)
  a) Make a sample of basic stitches-running stitch, hemming, back stitch, button whole stitch, chain stitch and satin stitch.
  b) Study of different parts of sewing machine
  c) Make samples of seams, pleats and patches (three types each)
  d) Make a sample of fixing hooks and buttons (1 each)
  e) Removal of stains-tea, curry, grease, grass, ball pen, ink, lipstick and nail polish using chemicals

UNIT-II USE OF COLOUR: (10 marks)
  a) Preparation of colour wheel (prang colour chart)
  b) Preparation of motifs using monochromatic, direct complimentary and analogous colour schemes

UNIT-III CHILD CARE:
Preparation of immunization chart (5 marks)
Practical Record (5 marks)

QUESTION PATTERN AND DISTRIBUTION OF MARKS
HOME SCIENCE (PRACTICAL)
+2, 2nd Year Arts

Full Mark: 30 Time: 3 Hrs.
1. Experiment - 25 Marks
2. Record - 5 Marks

BOOK PRESCRIBED:
Bureau's Higher Secondary (+2) Home Science, Part-I & II Published by Odisha State Bureau of Textbook Preparation & Production, Bhubaneswar.
INDUSTRIAL RELATIONS
AND PERSONNEL MANAGEMENT
(Elective)

1. Objective of the course:-
   a) To inculcate certain basic ideas on Industrial Relations and Personnel Management to Young student. Who at the end of this course may go “to Junior Posts in Govt. Department of Labor Administration Besides they will also suit similar posts in the industrial Relations, Labor Welfare, Personnel Department, Human Resources Department of Factories, Mines, Plantations, Ports and Docks, Banks and other establishments.

   b) This will also serve as a bridge course to the professional Degree or Diploma course in Management, Labor Welfare personnel Management, Human Resource Management and Industrial Relations.

2. Course:-
   There shall be two theory paper carrying 100 marks each of three hours duration. The examination for the 1st year will be conducted at the end of 1st year at college/H.S. School and the same the 2nd year will be conducted at the end of 2nd year at the Council level.

   DISTRIBUTION OF MARKS

<table>
<thead>
<tr>
<th>Full Marks - 100</th>
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</thead>
</table>

**Group-A: Objective type compulsory:**

| Q.1. Multiple choices (from all units) | 1 mark each X 15 = 15 marks |
| Q.2. One work answer/very short answer/Correct the sentences/Fill up the blanks | 1 mark each X 15 = 15 marks |

**Group-B: (Short type Answer):**

| Q.3. Answer within Two/Three sentences (out of 14bits one has to answer 11 bits) | 2 marks each X 11 = 22 marks |
| Q.4. Answer within six sentences. (out of eight bits, one has to answer six bits) | 3 marks each X 6 = 18 marks. |

**Group-C: (Long type Answer):**

| Q.5. to Q.10 Out of six questions from all units, Answer 4 questions. | 7.5 marks each X 4 = 30 marks |
INDUSTRIAL RELATIONS AND PERSONNEL MANAGEMENT
FIRST YEAR, PAPER-1
(INSUSTRIAL RELATIONS)

Full marks - 100

Unit-I

Industrial Relations and Trade Unionism:-

(25 mar.ks) 16 periods

(a) Meaning and Definitions of Industrial Relations
(b) Objectives and Scope of Industrial Relations
(c) Significance of Industrial Relations
(d) Meaning, Aims and Objectives of Trade Union
(e) Functions of Trade Union
(f) Types of Trade Union-Craft Union, Industrial Union and General Union
(g) Union registrations & recognition
(h) Code of conduct.
(i) National Federations of Trade union in India.

Unit-II

Industrial Disputes in India :-

(25 marks) (16 periods)

(a) Meaning and Definitions of Industrial Disputes
(b) Causes of Industrial Disputes
(c) Consequences of Industrial Disputes
(d) Meaning of Strikes and Lockouts- Legal and Illegal
(e) Machineries for the Settlement of Industrial Disputes
(f) Grievances Settlement Authority
(g) Works Committee
(h) Conciliation Officer
(i) Voluntary Arbitration
(j) Labor Court
(k) Industrial Tribunal and
(l) National Tribunal
(m) Unfair Labor Practices
(n) National Commission or Labor
(o) Globalization & Compact on IR
(p) Awards
Unit-III

Collective Bargaining (25 marks) (16 Periods)
(a) Meaning, Objectives and Scope of Collective Bargaining
(b) Prerequisites of Collective Bargaining
(c) Process of Collective Bargaining
(d) Levels of Collective Bargaining
(e) Collective Agreement

Unit-IV

Workers Participation in Management: (25 Marks) (16 Period)
(a) Meaning and Definitions of Workers Participation in Management
(b) Forms of Workers Participation in Management
(c) Workers Participation in Management in India
(d) JOINT FORUMS:-
   i) Joint management Councils (JMC)
   ii) Canteen Committee
   iii) Safety Committee
   iv) Welfare Committee Production Committee.

INDUSTRIAL RELATIONS AND PERSONNEL MANAGEMENT
SECOND YEAR, PAPER-II
(Personnel Management)

Unit-I

Personnel Management. (25 Marks) (16 period)
(a) Meaning and Definition of Personnel Management
(b) Objectives and Scope of Personnel Management
(c) Importance of Personnel Management
(d) Functions of Personnel Management
(e) Growth and Development of Personnel Management
(f) Personnel Management v/s Human Resource Management
(g) Objectives and Functions of Human Resource Management

Unit-II

Recruitment, Selection and Training (25 Marks) (16 periods)
(a) Meaning and Definition of Recruitment
(b) Sources of Recruitment - Internal and External with their Merits and Demerits
Unit-III

Labor Welfare and Social Security
a) Meaning and Definition of Labor Welfare
b) Aims and objectives of labor welfare
c) Concept and Scope of Labor Welfare
d) Philosophy of Labor Welfare
e) Principals of labour Welfare
f) Meaning and Definitions of Social Security
g) Social Assistance and Social Insurance
h) ESIA-1948
i) Maternity Benefit Act, 1961
j) Employees Compensation Act 1923

Unit-IV

Statutory Labor Welfare measures with special reference to welfare, working hours and Annual leav with wages under the Factories Act, 1948
b) Functions of Welfare Officer in industry
c) Labor Administration in Odisha, Structure and Functions of the District, Zonal and State Level
d) International Labor Organisation(ILO)
e) Aims and Objectives of ILO
f) Structure and Functions of ILO
g) Impact of ILO on Industrial Relations in India.
INDIAN MUSIC
ODISSI VOCAL
(Vocal and Instrumental) Applied and General Theory
FIRST YEAR
Sub Code- IMOV

Full Mark - 100
Practical - 60
Theory - 40 marks

Time - 2 hours

(Each Unit Carries 8 Marks and 6 classes annually)

Unit - I
Characteristics feature of all the Ragas and Talas prescribed for this year.

a) Ragas are - Sankaravarana Kafi, Mukhari, Gauda, Khamaj, Bajrakanti, Mohana
b) Talas are - Ekatali, Khemta, Rupak, Jati, Jhula

Unit - II

a) Knowledge of writing notation of the Ragas.
b) Knowledge of writing layakari (Eka Guna, Dui Guna, Chou-Guna) with sastriya Parichaya.
c) Definition and Description of Tanpura.

Unit - III

Definition of following musical Terms.
Dhawni Nada, (Ahata-Anahata), Sangeeta, Badl, Sambadi, Saptaka (Mandra-Madhya,Tara),
Bibadi Rag, Anubadi, Aroha, Abaroha, Tala, Laya (Vilambit-Madhya-Druta) Prabadha,

Unit - IV

(a) Swara sruti Bibhajana
(b) Comparative study.
   (i) Swara- Sruti
   (ii) Mela- Raga.
   (iii) Purbaraga- Uttaraga.

Unit - V

Biography of the following
(i) Jayadev
(ii) Singhari Shyamsundar Kar
(iii) Pandit Nrusingha Nath Khuntia.
(VOCAL AND INSTRUMENTAL)
FIRST YEAR, Sub Code- IMOV
PRACTICAL

Time- 40 Minutes

(Each Unit Carries 12 Marks and 12 classes annually)

Unit - I
1. Each Candidate will have to select one Raga of this course as his/her choice.

Unit - II
2. Each Candidate will have to sing one Bhajan and Janana.
light classical song, one patriotic, one folk song.

Unit - III
3. Candidates to sing one chhanda, one champu, one Geeta Govinda.

Unit - IV
4. Test of Talas (Eka Guna- Dui Guna)

Unit - V
5. Identification of Swaras and Ragas asked by the Examiner.

Total 60 Marks - 40 Minutes

ODISSI VOCAL
SECOND YEAR
APPLIED AND GENERAL THEORY

Full Marks -
Practical -
Theory -

(Each Unit carries 8 Marks and 6 classes annually)

Unit - I
Characteristic features of all the Ragas and Talas prescribed for this year.
a) Ragas are - Kalayana, Baradi, Kamodi, Ashabari, Bhairabi, Malabagouda, Deshakhya.
b) Tala are - Ektali, Tripata, Jhampa, Jati Tala, Aditala.

Unit - II
a) Study of Notation System
b) Knowledge of writing Layakaries (Eka-Dui-Chariguna)

Unit - III
Definition :-

Unit - IV
Definition and comparative study :
a) Odissi, Chhanda, Champu, Janana, Bhajana, Choutisha,
b) Structural description and Tuning system of Mardal.

**Unit - V**

(a) Biography of the following
   i) Sangeeta Sudhakar Balakrushna Dash
   ii) Kavisurya Baladev Rath

(b) Writing essay of the following
   i) Aims of learning Music.

**SECOND YEAR**

Sub Code- IMOV

**PRACTICAL**

(Each Unit carries 12 Marks and 12 classes annually)

**Unit - I**

1. Each candidate will have to select one Raga of this course as his/he’s choice.

**Unit - II**

2. Each candidate will have to Sing one Bhajan and one Janana, one light classical song, one patriotic, one folk song.

**Unit - III**

3. Candidate to sing one chhanda, or one champu, or one Geeta Govinda

**Unit - IV**

4. Test of Talas with Layakari (Eka-Dui-Chouguna Kriya)

**Unit - V**

5. Identification of Sworas and Ragas asked by the Examiner

**Total - 40 Minutes**

**Prescribed Books :**

**Practical - Indian Music. Odissi Vocal**

1. Laxkhya Swora Malik Lahari - Dr. D. Hota
2. Srimandira Sangeeta Mala - Pandit N.N.Khuntia
3. Odissi Sangeeta Manjari - Pandit G.C. Panda
4. Sangeeta Markandeya - Pandit Markandeya Mohapatra
5. Aiankar Ratnabali - Sri Ramhari Das.
6. Odissi Raga Sangeeta - Lokanath Pal

   *(Part-I,II,III)*

8. Champu Sworalipi - Sangeet Natak Academy/Odissi Research Centre.

**Theory**

1. Bharatiya Sangeeta Itihas - Dr. D. Hota
2. Utkal Sangeeta Padhati - Shyam Sundar Dhir
3. Bharatiya Sangeeta - N. Panigrahi
4. Sangeeta Sangyan - Sri Ramhari Das
5. Odissi Sangeetara Parampara O Prayoga - Sri Ramhari Das.

HINDUSTANI VOCAL MUSIC
FIRST YEAR
Code - I.M.H.V

Full Marks - 100
Theory - 40
Practical - 60

THEORY
Applied and General Theory
(Each Unit Carries 8 marks and 6 classes annually)

Unit - I
Characteristic features (Sastriya Parichaya) of all the Raagas and Taalas of this year course. Such as :-
(a) Ragas: - Bhupali, Kafi, Khamaj, Alheiyabilawal, Vrindabenisarang, Desh, Kalyan, Asabari, Bageshree, Durga, Bhimpalasi and Bhairaba.
(b) Taalas: Tritaal, Jhamptal, Ektal, Chautal. Rupak, Dadna and Kaharwa

Unit - II
Preliminary Knowledge of writing notation of all the compositions of the prescribed ragas and talas of this year.

Unit - III
Definition of the followings :
Dhwani, Naada, Swara, Sruti, Saptaka, Sangeeta, Raaga, Graha, Ansa, Nyasa, Apanyasa, Vinyasa, Vadi, Samavadi, Anuvadi, Vibadi, Tbaat and it’s Verities, Varna, Purbanga, Uttaranga, Alankar, Aiaap, Taan, Boltaan, Bolbant, Dhrupad, Khayal, Sargamtaan, Laxyangeet and Bhajan.

Unit - IV
Comparative study of the following :
Raga - That Swara-Sruti, Tala-Laya, Alaap-tan, Boltan-Bolbant.

Unit - V
Life Sketches :
(a) Pt. V. N. Bhatkhande.
(b) Pt. V.D. Paluskar
(c) Tansen

PRACTICAL FOR +2 1ST YEAR ARTS IN IMHV
EACH UNIT CARRIES 12 MARKS &
12 CLASSES ANNUALLY

Unit - I
Candidates will be taught at least one Chhota Khayal with simple Alaap and Tan in each of the
following prescribed Raagas :-
Bhupali, Kafi, Khamaj, Vrindabani-Sarang, Desh, Durga, Alheiya-Bilawal, Bageshree Bhimpalasi, Kalyart, Asabari and Bhairaba.

Unit - II
Candidates will be taught the knowledge of Layakeries (2 guan and 4 guan) in the following Taalas - Tritaal, Jhamptal, Ektal, Chautal, Dadra and Kaharwa.

Unit-III
Candidates will be taught one Dhrupad based on any prescribed raag with Dugun and chaugun layakaries.

Unit - IV
Identification of Raagas, Taalas and Swaras which will be asked by the examiner.

Unit - V
Candidates will be taught one Light classical composition (Bhajan)

HINDUSTANI VOCAL MUSIC
FOR +2 SECOND YEAR ARTS
CODE :- I M H V

Full Marks - 100
Theory - 40
Practical - 60

THEORY
APPLIED AND GENERAL THEORY CODE - IMHV
EACH UNIT CARRIES 8 MARKS & 6 CLASSES ANNUALLY

Unit -I
Characteristic features (Sastriya Parichaya) of all the Raagas and Taalas prescribed for this year course Such as :-
(a) Bihag, Patdeep, Kedar, Hameer, Tilakkamod, Sankara, Malkauns and Bhairavi,
(b) Talas : Dharmar, Jhumura, Tilwara and Vilambit Ektal.

Unit -II

Study of the following :-
(a) Brief History of Indian Music.
(b) Physical description and tuning systems of Taanpura.

Unit - III

Definitions :-
Gamak, Meend, Kaku, Jaati and its verities., Alpatwa, Bahutwa, Gayaki, Nayaki, Janakfhaaf9anyaraag, Asrayaraag, Thaat and its verities, Sasabad Kriya and Nisabad Kriya

Unit - IV

Essays :-
(a) Necessity of Music.
(b) Role of Taala and Laya in Music.
(c) A classical Music Evening.

Unit - V
General study of the following:
(a) Sruti Swara Bibhajana (Ancient, Medieval and Modern Period).
(b) Notation System of Indian Classical Music (Pt. Paluskar and Pt. Bhatkhande System).

PRACTICAL +2 SECOND YEAR ARTS
HINDUSTANI VOCAL MUSIC
CODE: IMHV
PRACTICAL
(Each Unit carries 12 Marks and 12 classes annually)

Unit - I
Candidate will be taught at least one chhota-Khayal in each of the following ragas: Bihag, Pattadeep, Kedar, Hameer, Sankera, Malkouns, Tilak Kamod and Bhairabi.

Unit - II
Candidates will be taught at least 2 Badakhayal in any of the prescribed raagas with Alaap, Boitaan and Taan.

Unit - III
Candidates will be taught one Dhrupad based on any Raga of this year with layakaries: (2 gun, 3 gun and chaugun 4 gun)

Unit - IV
Candidates will be taught the following taalas with layakeries (2 gun, 3 gun and Chaugun 4 gun):
(a) Jhumura (b) Dhamar (c) I lãwara and (d) Vilambit EkM

Unit - V
(a) Candidates will be taught 2 light classical composition.
(b) Candidates will be taught to identify the Raagas, Taalas and Swaras’ asked by the examiner from the syllabus.

DIVISION OF MARKS AND TIME PRESCRIBED FOR EACH CANDIDATE AT THE TIME OF PRACTICAL EXAMINATION. (FOR BOTH THE YEAR)

1. Each candidate will have to select one Badakhayal and Chhota Khayal based on any raaga of the course as his/her choice, which carries.
   15 minutes

2. Each candidate will have to demonstrate one Dhrupad with layakaries which carries.
   05 minutes

3. Examiners Choice from the course other than candidates choice which carries.
   05 minutes

4. Test of Talas with layakaries which carries.
5. Identification of Swara, Raga and Tala which carries.  
6. Each candidate will have to demonstrate one light classical composition which carries  
   
   Time for each candidate.  
   
   Prescribed Book for +2 1st Year and 1nd Year in HINDUSTANI VOCAL MUSIC.  
   1. Hindustani Sangeet Lahari (Part-I, II, III) - By Dr. Damodar Hota.  
   2. Sangeeta Shastra - By Dr. Damodar Hota)  
   3. Bharatiya Sangeetara Ralihas - By Dr. Damodar Hota.  
   4. Raaga Sangeeta (Part-I, II, III) - by Dr, M.C. Senapati  
   
Arts Stream  
5. Sangeet Visharad - By Vasant, Hatharas, U.P.  
7. Sahgeetanjali (Part-I, II, III) - By P. Omkarnath Thakur.Hatharas, U.P.  

INDIAN MUSIC (TABLA)  
SUBJECT CODE :- IMP  

The course consists of two theory papers each carrying 40 marks each Of 2 hours duration and two practical paper carrying 60 marks each.  
The theory paper - I shall be covered in the 1st year and the theory paper - II in the Second Year. The Practical Examinations i.e. (Practical Paper - I and Practical Paper - II) shall also be conducted in the 1st and 2nd year respectively.  

THEORY PAPER - I  
(APPLIED AND GENERAL THEORY)  
FOR FIRST YEAR  

Each unit carries 8 marks : 

Unit - I  
(a) Music: Definition of Music according to musicians.  
(b) Origin of Music: -Religious theory regarding its origination.  
(c) Significance of Music: It’s impact on human beings.  

Unit - II  
(a) Musical Instruments of India :- Classification, their definition.
(b) Abanadha Badya of India.-It’s definition, classification and structure.
(c) Life history of tabla: It’s origin, structural method and role in Music.

Unit - III

Essay of the followings :-
(a) Importance of Tal in Music.
(b) Aim of learning Tabla.
(c) A musical programme you have attended.
(d) Role of Radio and Television in Propagation and spread of Music.

Unit - IV

(a) Typical qualities of Tabla players.
   (i) Their good and bad qualities.
   (ii) Their impact on the audience
(b) Description of Tal: - Definition, their characteristics.

Unit - V

Definition of various musical terms: -
Abanadha, Tai, Theka, Matro, Bivag, Som, Khaii, Bole, Chhanda and Jati.

Total-30 periods

PRACTICAL

Time- 40 minutes

The division of marks is as follows :-

1. Each candidate will have to select. One Tal of this courses for if’his/her sole (Lahara) performance as choice Tal. 20 marks-15 minutes.

2. Each candidate is required to play the sole (Lahara) as desired by the examiner :- 15 marks - 10 minutes.

3. Each candidate is required to play one kayada with palats and Tyahi besides his/her choice :- 10 marks-05 minutes.

4. Test of Tal from the course- 10 marks -05 minutes.

5. Each candidate will have to play either Rela or Tukuda or Damdar Tyahi as directs :- 5 marks - 05 minutes.
PRACTICAL
FOR 1ST YEAR
Each unit carries twelve marks Full marks - 60

Unit - I
12 periods
(a) Practice of the following Banees.
    TA, NA, Tin, Tee, Tuna, Ke, Ka, Ge, Ghe, Dha, Dhin, Tete, Terekete, Kedenaga and Ghedenag.
(b) Recitation of Thekas :-
    Trital, Jhamptal, Ektal, Jhumura, Tilwada, Rupak, Teora, Dadra, Dhumali and Kaharawa.
(c) Candidate will be taught Barabar, Digun and Chaugun layakaries.

Unit - II
15 periods
(a) Characteristic features of all the prescribed taaias.
(b) Candidates will be taught Drutt Thekas of Trital, Jhamptal, Rupak, Kaharawa, Jhumura, Ektal, Tilwada, Teora, Dadra and Dhumali.

Unit - III
15 periods
Candidates will be taught atleast two Kayada with platats and two Damdar Tyahis set to Trital and Jhamptal each with the help of Ghedenag, Keedenag, Dha, Dhin, Tuna and Din Banees.

Unit - IV
10 periods
(a) Candidates will be taught the padhat of Tukuda, Kayada and Theka by beating of hand showing Som, Tali, Khaii and Bivag.
(b) Candidates will be taught at least two Tukuda in Trital and Jhamptal each.

Unit - V
8 periods
(a) Candidates will be taught mukhuda set to Trital and Jhamptal each.
(b) Candidates will be taught the prakars of Trital and Jhamptal.

Total - 60 periods
SECOND YEAR THEORY (Applied and General theory)
30 periods
Each Unit carries 8 marks:-
Unit - I
5 periods
(a) Letters of Tabla :- Main letters, their categories arid production from different parts.
(b) Sangat and Sole Playing :- Definition of Sangat Sole and their Principles.
(c) Tuning System of Tabla :- Necessity of tuning, Principles of tuning the tabla and Dugee.
Unit - II
Arts Stream

6 periods

(a) Notation Systems: - Categories used in Indian Music, Principles trf B.N. Shatkhane and B.D. Paluskar notation system.
   Similarities and dissimilarities between those two systems.
(b) Similarities and dissimilarities between various Talas.
   Trital :- Tilwada
   Dipchandi :- Jhumura
   Rupak :- Teora
   Dhumali :- Kaharawa

Unit - III

4 periods

Definition of various musical terms :- Kholi, Mudi, Theka, Prakar, Palat, Kayada, Rele, Mukhuda, Tukuda, Uthan, Peskar, Tyahi and Laya.

Unit - IV

8 periods

(a) Dasapran of Tal: - It’s definitions and divisions.
(b) Life history Of eminent Tabla players :
   (i) Ahamadjan Thirgwa
   (ii) Kanthe Maharaj
   (iii) Khetramohan Kar
   (iv) Nab kumar Panda
   (v) Sampta prasad Mishra

Birth and musical tradition of their family learning, speciality, personality and contribution to the world of music.

Unit - V

7 periods

Gharana and Baj
Their origin, definition, categories, similarities and dissimilarities between Delhi and Banaras Baj.

Total -30 periods

SECOND YEAR (PRACTICAL)

Each unit carries twelve marks :-

60 periods

Unit - I

12 periods

(a) Candidates will be taught to play Ekgun, Digun and Chaugunlaya of Theka set to Trital, Jhamptal and Rupak.
(b) Candidates will be taught atleast one simple Rela set to Trital, Jhamptal and Rupak tal each.

Unit - II

10 periods

Candidates will be taught two kayada with palate and one Damdar Tyahi in each set to Trital, Jhamptal with the help of Tereketa, Dhetetete and Kredhetete Banees.

Unit - III
Arts Stream

14 periods

(a) Candidates will be taught to play Prakars set to Trital, Jhamptal, Rupak, Kaharawa & Dadratal.
(b) Candidates will be taught to play the Drutt thekas of Ektal, Jhumuratal, Dhumali, Tiwiwara and teoratal with Prakars.

Unit - IV

12 periods

(a) Candidates will be taught to play Kayada in Ghedenag Banee.
(b) Candidates will be taught Kayada in Tereketa Banees.

Unit - V

12 periods

(a) Candidates will be taught to play two tukudas set to Trital, Jhamptal and Rupakta in each.
(b) Candidates will be taught to play Chakradar set to, Trital, and Jhamptal.
(c) Candidates will be taught to play Drutt Thekas set to Trital, Jhamptal, Dadratal and Kaharawa with various prakars.

Total - 60 periods

INFORMATION TECHNOLOGY

+2 1st Year SC/ARTS/COM

Unit-1

Introduction to computer system

A) Hardware concepts : [10 periods] ......................... 10 marks

I) Computer organisation :
   CPU, Memory (RAM & ROM & I/O), devices, communication bus, ports (serial parallel)

II) Input devices :
   Keyboard, Mouse, Light pen, touch screen, graphic tablets, joystick, microphone, OCR, OMR, scanner, smart card reader, BCR, MICR, BIOMETRIC sensors, web camera.

III) Output devices :
   Monitor/VDU, LED/LCD screen, television, printers (DMP, deskjet / inkjet/bubble jet printer, laser printer), plotter, speaker.

IV) Memory unit :
   Memory, types of memory, RAM(SDAM, DRAM), ROM(PROM, EPROM, EEPROM),
B) Types of software:

I) System software: [10 periods] .......... 10 marks
Operating systems, need for operating system, major functions of operating system, OS for Main frame, PC/server, mobile services, language processors (assembler, interpreter & compiler)

II) Utility software:
Compression tools, disk defragmenter, anti virus.

III) Application software:
General purpose application (word processor, spreadsheet packages, presentation software, DBMS, IDE software), specific purpose application software (Inventory Management Software, Human Resource Management System (HRMS), Payroll systems, Financial Management System, Reservation System).

IV) Open source concepts: [7 periods] ...... 05 marks
Open source software, common foss/floss (GNU/LINUX, Firefox, Openoffice, java, NETBEANS, MYSQL), common open standards (www, html, xml, dhtml), Indian language computing, character coding, unicode, different types of fonts (open type versus true type, static vs dynamic), entering language text (phonetic & key map based).

Unit - 2:

Introduction to programming: [45 periods] ........... 25 marks

I) Getting started with programming with IDE: [20 periods] ..... 11 marks
Introduction, rapid application development with ide, basic interface components (label, text field, text area, button, checkbox, radio button) developing general application, getting familiar with java swing user interface components (frame, dialog, option pane, panel, scroll pane, label, text field, password field, text area, button, check box, radio button, combo box, list), basic components handling methods & properties (Set text (), gettext () Is Selected (), Set Selected ()).

II) Programming fundamentals: [15 periods] ............. 10 marks
Data types, concept of data types, built in data types (byte, short, int, long, float, double, char, string, boolean), variables, declaring variables, naming a variable, assigning value to variables, integer object method (parse int), double object method (parse double, parse float), control structure, decision structure (if, if.... else, switch), looping structure (while, Do-While, for)

III) Programming guidelines: [10 periods] ......... 04 marks
General concepts, Modular approach, running and debugging programs, (syntax errors, runtime error, logical errors), problem solving procedures (understanding the problem, identifying minimum number of inputs required for output, breaking down problem into simple logical steps)

Unit-3: Relational database management system: [30 periods] ............ 20 marks
I) **DBMS : [10 periods] .......................... 10 marks**
Introduction to data base concepts, Database, Relational database, Relation/Table, Attribute/Field, Tuple/Row, Data types, text (char, varchar), number (decimal, int/integer), date & time. Keys (candidate key, primary key, Alternate key, Foreign key), Examples of common database management tools for mobile devices.

II) **Introduction to MYSQL : [13 periods] ........... 05 marks**
(ANSI SQL 99 standard commands)
Classification of SQL commands, DML (Select, Insert, Update, Delete), DDL(Create, Drop, Alter), Creating & using a database (SQL Create command to create a database, Use command to select a database), creating a Table (Create command to create a table, DESC command to display a table structure, Insert command for inserting new rows), displaying table data (select command to select all the columns, selecting specific columns using arithmetic operators, operator precedence), Defining & using column alias, eliminating duplicate values from display using Distinct keyword, Limiting rows during selection using where clause using comparison operator (=, <, >, <=, >=, <>, BETWEEN, IN, LIKE (%,-)), and using Logical operators (AND, OR, NOT & correcting logical operator precedence).

Unit -4 : IT APPLICATIONS : [7 periods] ............ 5 marks

I) **E-GOVERNANCE : [4periods] .............. 3 marks**
Definition, Benefit to citizens, its web sites & its social impact, e-governance challenges

II) **E-learning : [3 periods] ................. 2 marks**
Definition, Benefit to students (learners), Benefit to teachers (Training Management), e-Learning websites & its social impact.

**PRACTICAL :**

I) Problem solving using Java .................. 10 marks

II) SQL Queries ................................. 05 marks

III) Pratical Records ............................. 10 marks

[Productivity Tools, Simple problem using Java SQL Queries, IT Application]

IV) Viva Voce ................................. 05 marks

**Evaluation of practical Examination :**

a) **Problem / Solving using Java :**
   Student is required to solve programming problems based or all concept covered in the experiment to maintain a record of these in the practical file.

b) **SQL Queries :**
   Students will be asked to write 5 SQL queries in MY SQL based on one or two
c) **Practical Record File:**
A practical record file should include the following:

i) At least 10 solution of simple problems using IDE based java.

ii) At least 3 IT application ........... problem - solving frame work.

iii) At least 15 SQL queries on any database.

d) **Viva Voce:**

**Swing Control Methods & Properties:**

```java
Class : JButton
Swing control : JButton
Methods : get Text (), set Text ()
Properties : Background, Enabled, Font, Foreground, Text, Label
```

```java
Class : JLabel
Swing control : JLabel
Methods : get Text (), set Text ()
Properties : Background, Enabled, Font, Foreground, Text
```

```java
Class : JTextField
Swing control : JTextField, j Text
Methods : get Text (), IsEditable (), set Text ()
Properties : Background, Editable Enabled, Font, Foreground, Text
```

```java
Class : JRadioButton
Swing control : JRadioButton, J Radio
Methods : get Text(), set Text(), is Selected(), set Selected ()
Properties : Background, Button Group, Enabled, Font,
            Foreground, Label, Selected, Text
```

```java
Class : JComboBox
Swing control : JComboBox
Methods : get Selected Item (), get Selected Index (), set Model ()
```

```java
Class : JCheckBox
Swing control : JCheckBox
Methods : get Text(), set Text (), is Selected(), set Selected()
Properties : Button Group, Font, Foreground, Label, Selected, Text
```

```java
Class : Button Group
Swing control : JButton Group
Methods :
Properties : Add
```
Propeties: Backgroup, Button Group, Editable, Enabled,
          Font, Foreground, Model, SelectedIndex,
          SelectedItem, Text

Class: Jlist
Swing control: jList
Methods: getSelectedValue()

Propeties: Backgroup, Button Group, Editable, Enabled,
          Font, Foreground, Model, Selected Index, Selected
          Item, Text

Class: Jtable
Swing control: jTable
Methods: addRow(), getModel()

Propeties: Model
Class: JoptionPane
Swing control: JoptionPane
Methods: showMessageDialog()

Propeties: DefaultTableModel
Class: Connection
Swing control: getRowCount(), removeRow(), addRow()
   i)  Computer Networking : [08 Periods] ............................... [10 Marks]
       Networking - a brief overview, Network devices (Hub, Switch, Bridge, Router, 
       Repeater, Gateway) & their functions, Type of Network (LAN, MAN, WAN, PAN) Network 
       Topologies (Star, Ring, Bus, Tree), Communication, Media, Wired Technologies 
       [Coaxial, Ethernet cable, optical fiber] Wireless Technologies [Bluetooth, Infrared, 
       Microwave, Radio Link, Satellite link]

   ii) Internet & its Application : [12 Periods] .......................... [10 Marks]
       Internet - an Overview, Internet Backbone, Internet Access (Dial-up, direct, 
       Broadband connection), Role of ISP, Internet Protocols (TCP/IP, HTTP, FTP, TELNET, 
       WAIS, Gopher), Internet Addressing (IP Address, Domain names), MAC (Media Access 
       Control), URL, E-mail, Address, Internet Application [www, websites & web pages, E-
       mail, SMS, voice mail, chatting, IRC, Video conferencing, web browsers, search Engine] 
       wireless/mobile communication [GSM, CDMA, WLL, 3G, 4G]

   iii) Network security on internet : [05 Periods] ........................... [10 Marks]
       Threats & prevention from virus, Use of cookies, Firewall, use of digital signature, 
       cyber crimes [Hacking, on-line fraud, pornography, snooping, spooling, cyber stalking, 
       software piracy] Cyber Laws.

UNIT - 2 : Programming : [Reviews of 1st yr] : [40 periods] ................... [ 16 Marks]
   i)  Programming fundamentals : [28 periods] ............................... [10 Marks]
       Basic concept of Access specifier for class member [data member & methods], 
       Basic concept of inheritance, Commonly used libraries .......... staring class & methods 
       [tasting(), concat (), length(), to lower case (), to upper case (), trim (), substring ()] & 
       math class & methods [pow (), round ()], Accessing MY SQL database using ODBC, 
       JDBC to connect with database.

   ii) HTML based web page covering basic tag : [12 periods] ... [6 marks]
       HTML, DHTML, TITLE, BODY, H1 ....... H6, Paragraph (P) Line break (BR), 
       Section separator (HR), font, table, list (UL, OL), FORM, Creating & Accessing static & 
       dynamic pages using HTML, DHTML & introduction to XML.

UNIT - 3 : Relational Database Management System : [30 Periods] [14 Marks]
   i)  Database fundamentals : [20 periods] ............................... [8 Marks]
       Concept of Database Transaction, committing and revoking a transaction using 
       COMMIT & ROLLBACK, Grouping Records, GROUP BY, Group function [MAX (), MIN 
       (), AVG(), SUM(), COUNT()], Using COUNT (*), DIDINCT clause with COUNT, group 
       function & NULL value, displaying data from multiple tables [Cartesian product, union, 
       concept of foreign key, equi-join].

   ii) Introduction to MYSQL : [10 periods] ............................... [6 Marks]
       Working with NULL value, ORDER BY CLAUSE [sorting in ascending / descending 
       order, sorting by column alias name, sorting or multiple column], manipulating data of a 
       table / relation [update command to change exiting data of a table, delete command for
removing rows from a table], restructuring a table [ALTER TABLE for adding new columns and deleting columns], string function [ASCII(), CHAR(), CONCAT(), INSTR(), LCASE(), UCASE(), LENGTH(), LTRIM(), MID(), RIGHT(), RTRIM(), TRIM(), SUBSTR()], Mathematical functions [POWER(), ROUND(), TRUNATE()], Date & time functions [CURDATE(), DATE(), MONTH(), DAYOFMONTH(), DAYOFWEEK(), DAYOFYEAR(), NOW(), SYSDATE()].

UNIT - 4 : IT Applications : [10 periods ............................................. [10 Marks]

i) E-business
   Definition, E-commerce & its type with benefits, E-business websites & their salient features & Social impacts, E business challengers.

ii) Front-end Interface :
    Introduction, Content & Features, identifying validation & display (Text Box, Radio Button, Check Box, list etc.)

iii) Front-end & Database connectivity :
     Introduction, requirement & benefits

iv) Back-end database :
    Introduction & its purpose, exploring the requirement of table & its essential attributes.

v) Development of database : Demonstrator & development of appropriate front-end interface & back-end interface database for e-governance applications.

PRACTICALS :

1. Problem solving using java ....................................................... [10 Marks]
2. SQL Queries ...........................................................................[05 Marks]
3. Practical records ........................................................................[05 Marks]
   i) Simple problems using IDE Java
   ii) SQL Queries
   iii) Web-page creation by HTML
   iv) IT Application

4. Project work .............................................................................. [05 Marks]
5. Viva Voce .................................................................................. [05 Marks]

Evaluation of practical Examination :

1. Students will be given a problem to be solved using java during final practical examination based on all concepts covered in theory.
2. SQL Queries:
   Students will be asked to write 5 SQL queries in MY SQL based on one or two tables during final practical examination.
3. Practical record :
A practical record should include the following:

a) At least 12 solution of simple problem using IDE based java.

b) Solution of at least 2 simple problem incorporating java application & database connectivity.

c) At least 24 SQL queries on one & / or two tables.

d) At least two web pages creating using HTML.

4. Project file:

Students in group of 2/3 are required to work collaboratively to develop a project using programming & database skills. This project should be an application in any one of the domain:

a) E - governance

b) E - business

c) E - learning

With GUI front-end & corresponding database at the back-end.

5. Viva Voce

**Question paper design (For Theory)**

+2 1st yr (Sc/Arts/Commerce)

A. Very short Question : (1 Marks)

i) Introduction to computer systems (4 question x 1 marks) ............ 4 mark

ii) Types of software (2 question x 1 marks) ............................... 2 marks

iii) Getting started with programming using IDE (1 question x 1 marks)........ 1 mark

iv) Open source concept (1 question x 1 marks) ............................ 1 marks

v) Introduction to MY SQL (3 question x 1 marks) .......................... 3 marks

vi) IT Application (1 question x 1 marks) ..................................... 1 mark

B. Short question : (2 mark each)

i) Introduction to computer system (1 question x 2 marks) ............... 2 marks

ii) Type of software (2 question x 2 marks) .................................. 4 marks

iii) Programming using IDE (2 question x 2 marks) ........................ 4 marks

iv) Introduction to MY SQL (1 question x 2 marks) .......................... 2 marks

v) DBMS - (1 question x 2 marks) ................................................. 2 marks

vi) IT Application (2 question x 2 marks) ..................................... 4 marks

C. Short question : (4 marks each)

i) Introduction to computer system (1 question x 4 marks) ............... 4 marks

ii) Type of software (1 question x 4 marks) .................................. 4 marks

iii) Open source concept (1 question x 4 marks) ............................ 4 marks

iv) DBMS (2 question x 4 marks) ................................................. 8 marks
v) Programming fundamentals (1 question x 4 marks) ......................... 4 marks  
vi) Programming guideline (1 question x 4 marks) ............................. 4 marks  

D. Long question : (6 marks each)  
i) Programming fundamentals (1 question x 6 marks) ........................... 6 marks  
ii) Getting started with programming with IDE (1 question x 6 marks) .... 6 marks  

+2 2nd Yr Science/Arts/Commerce  

A. Very short question : (1 marks each)  
i) Computer network (2 question x 1 marks) .......................... 2 marks  
ii) Internet & its application (2 question x 1 marks) ......................... 2 marks  
iii) Network security (2 question x 1 marks) ................................. 2 marks  
iv) Database (2 question x 1 marks) ................................. 2 marks  
v) Introduction to MYSQL (2 question x 1 marks) .......................... 2 marks  
vi) IT Application (2 question x 1 marks) ................................. 2 marks  

B. Short question : (2 Marks each)  
i) Computer network (2 question x 2 marks) ................................. 4 marks  
ii) Internet & its application (1 question x 2 marks) ......................... 2 marks  
iii) Network security (2 question x 2 marks) ................................. 4 marks  
iv) HTML base web pages (1 question x 2 marks) ......................... 2 marks  
v) Database (1 question x 2 marks) ................................. 2 marks  
vi) IT Application (2 question x 2 marks) ................................. 4 marks  

C. Short question : (4 Marks each)  
i) Computer network (1 question x 4 marks) ................................. 4 marks  
ii) Network security (1 question x 4 marks) ................................. 4 marks  
iii) Programming Fundamental (1 question x 4 marks) ......................... 4 marks  
iv) HTML base web pages (1 question x 4 marks) ................................. 4 marks  
v) Database (1 question x 4 marks) ................................. 4 marks  
vi) Introduction to MY SQL (1 question x 4 marks) ......................... 4 marks  

D. Long question : (6 marks each)  
i) Internet & its application (1 question x 6 marks) ......................... 6 marks  
ii) Programming Fundamentals (1 question x 6 marks) ......................... 6 marks  

Books Recommended:  
1. Bureau's Higher Secondary (+2) INFORMATION TECHNOLOGY, Part-I & II, Published by Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar.
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