Revised Syllabus (Class XI) 2017-18

SUBJECT: ENGLISH CORE

HALF YEARLY EXAMS

READING SKILLS (20 marks)
- unseen passage
- note making and summarizing

WRITING SKILLS & GRAMMAR (30 marks)
(A) Notices, Poster & Advertisement
(B) Letters
   (i) business or official (for making enquiries, registering complaints, asking for and giving information, placing orders and sending replies)
   (ii) letters to the editor (giving suggestions/opinions on an issue)
   (iii) application for a job with a bio-data or resume
(C) Article & Speech
(D) Determiners, Tenses, Clauses, Modals and Change of Voice

LITERATURE TEXTBOOKS & NOVEL (30 MARKS)
HORNBILL
L-1. The Portrait of a Lady
L-2. We’re Not Afraid to Die if We Can All Be Together
L-3. Discovering Tut: The Saga Continues
   Poem 1: A Photograph
   Poem 2: The Voice of the Rain

SUPPLEMENTARY READER-SNAPSHOTS
1. The Summer of the Beautiful White Horse
2. The Address
3. Ranga’s Marriage
4. Albert Einstein at School
5. Mother’s Day
6. Birth
7. The Tale of Melon City

NOVEL Chapter: 1 to 4 - The Canterville Ghost (Oscar Wilde)
Note: Read full novel in summer vacations

FINAL EXAMS

READING COMPREHENSION (20 marks)
- unseen passage
- note making and summarizing

WRITING SKILLS & GRAMMAR (30 marks)
(B) Letters
   (iv) letters to the school or college authorities, regarding admissions, school issues, requirements/suitability of courses etc.
(C) Narrative & Report writing

LITERATURE TEXTBOOKS & NOVEL (30 MARKS)
HORNBILL
L-4. The Ailing Planet: The Green Movement’s Role
L-5. The Browning Version
   Poem 3: Childhood
   Poem 4: Father to Son

NOVEL - The Canterville Ghost (Oscar Wilde)
Chapter: 1 to 7

ASSESSMENT OF LISTENING & SPEAKING SKILLS (20 MARKS)

Note: Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

English Examination Specifications
1. One unseen passage/poem (MCQ 1 x 6 = 6, VSAQ 1 x 4 = 4, Vocabulary based 1 x 2 = 2) 12 marks
2. Note-making (a) Notes - abbreviation- 1 +3 +1 = 5 marks (b) Summary writing - 2 +1 = 3 marks Total 8 marks
3. Short Answer Questions: Based on notice/poster/advertisement (1 +2 +1) 4 marks
4. Letter types (1 +3 + 2) 6 marks
   (a) business or official letters
   (b) letters to the editor
   (c) application for a job with a bio-data or resume
   (d) letter to the school or college authorities
5. Very Long Answer Question: Composition in the form of article, speech, report writing or a narrative (1 +4 +5) 10 marks
6. Grammar - Error Correction, editing tasks. (1 x 4) 4 marks
7. Re-ordering of sentences (1 x 3) 3 marks
8. Transformation of sentences (MCQ 1 x 3) 3 marks
9. Very Short Answer Questions - Based on an extract from poetry. (1 x 3) 3 marks
10. Short Answer Questions - Based on prose, poetry and plays from both the texts. (3 x 3) 9 marks
11. Long Answer Question - Based on prescribed texts to test global comprehension and extrapolation beyond the texts to bring out the key messages and values. (3 + 3) 6 marks
12. Long Answer Questions - Based on theme, plot, incidents or events from the prescribed novels. (3 + 3) 6 marks
13. Long Answer Question - Based on understanding appreciation, analysis and interpretation of the characters. (3 + 3) 6 marks

Note – Assessment of listening skills (10 marks) Assessment of speaking skills (10 marks)
SUBJECT: PHYSICS

Theory
1. Physical World
2. Units and Measurements
3. Motion in a Straight Line
4. Motion in a Plane
5. Laws of Motion
6. Work, Energy and Power
7. System of Particles and Rotational Motion
8. Gravitation
9. Mechanical Properties of Solids
10. Mechanical Properties of Fluids
11. Thermal Properties of Matter
12. Thermodynamics
13. Kinetic Theory
14. Oscillations
15. Waves

Practicals
1. To measure the diameter of a small spherical body using Vernier Callipers
2. To measure internal diameter and depth of a given beaker / calorimeter using Vernier Callipers and hence find its volume
3. To measure diameter of a given wire using screw gauge
4. To measure thickness of a given sheet using screw gauge
5. To measure the radius of curvature of a given spherical (convex) surface using spherometer
6. To find weight of a given body using parallelogram law of vectors
7. Using a simple pendulum (i) plot L-T T^2 graphs
8. To determine mass by using beam balance
9. To find the spring constant (force constant) of a helical spring using load – extension graph
10. To determine Young’s modulus of the material of a given wire using Searle’s apparatus
11. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V
12. To determine the surface tension of water by capillary rise method
13. To study the relationship between temperature of a hot body and time by plotting a cooling curve
14. (i) To study the relation between frequency and length of a given wire under constant tension using sonometer
(ii) To study the relation between the length of a given wire and tension for constant frequency using sonometer
15. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions
16. To determine the co-efficient of viscosity of a given viscous liquid by measuring the terminal velocity of a spherical body

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

Question Wise Break Up

<table>
<thead>
<tr>
<th>Type of Question</th>
<th>Mark per Question</th>
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PRACTICAL

Time Allowed: Three hours

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<td>Investigatory Project</td>
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<td>Viva on experiments, activities and project</td>
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SUBJECT: CHEMISTRY
Practicals
1. Crystallization of impure sample of Alum or CuSO₄
2. Qualitative Analysis:
   Determination of anions – CO₃²⁻, S²⁻, SO₃²⁻, NO₃⁻, CH₃COO⁻, SO₄²⁻, NO₃⁻, Cl⁻, Br⁻, I⁻, PO₄³⁻, C₂O₄²⁻

Books prescribed by NCERT.

QUESTION WISE BREAK UP

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1. Internal Choice: There is no overall choice in the paper. However, there is an internal choice in one question of 2 marks weightage, one question of 3 marks weightage and all the three questions of 5 marks weightage.

2. The above template is only a sample. Suitable internal variations may be made for generating similar templates keeping the overall weightage to different form of questions and typology of questions same.

SUBJECT: MATHS

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<tr>
<th>L-1. Sets</th>
<th>L-9. Sequence and Series</th>
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<td>L-2. Relations and Functions</td>
<td>L-10. Straight Lines</td>
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<td>L-3. Trigonometric Functions</td>
<td>L-11. Conic Sections</td>
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<td>L-4. Principle of Mathematical Induction</td>
<td>L-12. Introduction to 3 D Geometry</td>
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<tr>
<td>L-5. Complex number and Quadratic Equation</td>
<td>L-13. Limits and Derivatives</td>
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<td>L-8. Binomial Theorem</td>
<td>Note :- Full course of Half Yearly Exam will be included in Final Exam</td>
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<td>L-16. Probability</td>
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Books prescribed by NCERT.
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SUBJECT: BIOLOGY

Theory

Unit I: Diversity of Living Organisms
Unit II: Structural Organisation in Plants and Animals
Unit V: Human Physiology

Practicals

A- List of Experiments
1. Study and describe three locally available common flowering plants, one from each of the families Solanaceae, Fabaceae and Liliaceae including dissection and display of floral whorls, anther and ovary to show number of chambers. Types of root (Tap and adventitious); stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).  
2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).  
3. Study of distribution of stomata in the upper and lower surface of leaves.  
4. Comparative study of the rates of transpiration in the upper and lower surface of leaves.  
5. Test for the presence of sugar, starch, proteins and fats. To detect these in suitable plant and animal materials.  
6. Test for presence of urea in urine.  
7. Detect the presence of sugar in urine.  
8. Detect the presence of albumin in urine.  
9. Detect the presence of bile salts in urine.

B- Study/observation of the following (spotting)
1. Study of mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.  
2. Study of imbibition in seeds/raisins.  
3. Observation and comments on the experimental set up for showing:  
   a) Anaerobic respiration  
   b) Phototropism  
   c) Effect of apical bud removal  
   d) Suction due to transpiration  
4. Project work

Note :- Full course of Half Yearly Exam will be included in Final Exam.
8. Study of external morphology of cockroach through virtual images/models.

Books prescribed by NCERT.

<table>
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**PRACTICALS**

Time Allowed: Three hours  
Max. Marks: 30

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**SUBJECT: ACCOUNTANCY**

Ch 1: Introduction to Accounting  
Ch 2: Basic Accounting Terms  
Ch 3: Theory Base of Accounting, Accounting Standards & IFRS  
Ch 4: Basis of Accounting  
Ch 5: Accounting Equations  
Ch 6: Accounting Procedures – Rules of Debit & Credit  
Ch 7: Origin of transactions – Source Documents & Preparation of Vouchers  
Ch 8: Journal & Ledger  
Ch 9: Special purpose Books I – Cash Book  
Ch 10: Special purpose Books II – Other Books  
Ch 11: Bank Reconciliation Statement  
Ch 12: Trial Balance  
Ch 13: Depreciation  
Ch 14: Provisions and Reserves  
Ch 15: Accounting for Bills of Exchange  
Ch 16: Rectification of Errors  
Ch 17: Financial Statements of Sole proprietorship  
Ch 18: Adjustments in Preparation of Financial Statements  
Ch 19: Accounts from Incomplete Records  
Ch 20: Financial Statements of Not-for-Profit Organisations  
Ch 21: Computers in Accounting  

Project work

**Note:** Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

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SUBJECT: BUSINESS STUDIES

Part A: Foundations of Business
1. Nature and Purpose of Business
2. Forms of Business Organisations
3. Public, Private and Global Enterprises
4. Business Services
5. Emerging Modes of Business
6. Social Responsibility of Business and Business Ethics

Project Work

Part B: Finance and Trade
7. Sources of Business Finance
8. Small Business
9. Internal Trade
10. International Business

Project Work

Note: Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

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Project Work 10 marks (File 6 marks and Viva 4 marks)

SUBJECT: ECONOMICS

PART-A (STATISTICS FOR ECONOMICS)

Ch. 1: Introduction
Ch 2: Introduction, Meaning and Scope
Ch 3: Collection of Primary and Secondary Data
Ch 4: Organization of Data
Ch 5: Tabular Presentation
Ch 6: Diagrammatic Presentation
Ch 7: Graphic Presentation
Ch 8: Measures of Central Tendency

PART-B (INDIAN ECONOMIC DEVELOPMENT)

Ch. 1. Indian Economy on the Eve of Independence
Ch. 2. Indian Economy 1950-1990
Ch. 3. Liberalisation, Privatisation and Globalisation : An Appraisal
Ch. 4. Poverty
Ch. 5. Human Capital Formation in India
Ch. 6. Rural Development

Project 20 marks

PART-A (STATISTICS FOR ECONOMICS)

Ch 9: Positional Average and Partition Values
Ch 10: Measures of Dispersion
Ch 11: Measures of Correlation
Ch 12: Introduction to Index Numbers
Ch 13: Preparation of a Project Report

PART-B (INDIAN ECONOMIC DEVELOPMENT)

Ch. 7. Employment : Growth, Informalisation and Other Issues
Ch. 8. Infrastructure
Ch. 9. Environment and Sustainable Development
Ch. 10. Comparative Development Experiences of India and its Neighbours

Two Case Studies

Project 20 marks

Note: Full course of Half Yearly Exam will be included in Final Exam.

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SUBJECT: ENTREPRENEURSHIP

Unit-1: Entrepreneurship – What, Why and How
Unit-2 : An Entrepreneur
Unit-3: Entrepreneurial Journey
Unit-4 : Entrepreneurship as Innovation & Problem Solving

Project Work & Problem Solving

Unit-5 : Understanding the Market
Unit-6 : Business Arithmetic
Unit-7 : Resource Mobilization

Project Work

Note: Full course of Half Yearly Exam will be included in Final Exam.
### SUBJECT: PHYSICAL EDUCATION

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### QUESTION WISE BREAK UP

1. Changing Trends and Career in Physical Education
2. Olympic Movement
3. Physical Fitness, Wellness and Lifestyle
4. Physical Education & Sports for Differently Abled
5. Yoga
6. Physical Activity & Leadership Training
7. Test and Measurement & Evaluation
8. Fundamentals of Anatomy and Physiology
9. Kinesiology, Biomechanics & Sports
10. Psychology and Sports
11. Training in Sports
12. Doping

Practicals

*Note:* Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

### SUBJECT: INFORMATICS PRACTICES

#### I- Introduction to Computer Systems
1. Hardware Concepts
2. Software Concepts

#### II- Introduction to Programming
3. Getting started with programming using IDE
4. Programming Fundamentals
5. Flow of Control

#### III-Relational Database Management System
10. DBMS concepts
11. Introduction to MySQL
12. Simple Queries in SQL

#### II- Introduction to Programming
6. Java IDE Programming I
7. Java IDE Programming II
8. Java IDE Programming III
9. Programming Guidelines

#### III-Relational Database Management System
13. MySQL Functions
14. Table Creation & Data Manipulation Commands

#### IV-IT Applications
15. IT Applications

*Note:* Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by CBSE.

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SUBJECT: PAINTING

Theory
UNIT-I
(i) Introduction to Pre-historic Rock Painting
(ii) Study of Pre-historic Painting
(a) Wizard Dance, Bhimbethka
(iii) Introduction to Art of Indus Valley and related areas as Ropar, Lothal, Rangpur, Alamgirpur etc.
(iv) Study of sculptures and terracottas
(a) Dancing Girl
(b) Male Torso
(c) Mother Goddess
(d) Bull Seal
(e) Decoration on earthen – war
(v) Elements of Art and Principles of design

UNIT-II
(i) Introduction to Ajanta and study of Painting & Sculptures
(a) Padmapani Bodhisattva
(b) Mara Vijay

Practical
(i) Nature and Object Study :
(a) Natural and Geometric forms in pencil with light and shade
(b) Knowledge of elements of art and principles of composition through various drawing
(ii) Painting Composition :
(a) Use of various colour mediums and textures in compositions
(b) Landscapes in water colours

UNIT-III
(i) Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture (6th century A.D.to 13th cent AD)
(ii) Study of following Temple sculptures
(a) Trimitri
(b) Lakshmi Narayan Temple
(c) Ravana Shaking Mount Kailash
(d) Descent of Ganga
(e) Cymbal Player, Sun Temple
(iii) Bronzes (South Indian Bronzes)
(a) Nataraj
(b) Devi
(iv) Artistic Aspects of the Indo-Islamic Architecture
(a) Qutub Minar, Delhi
(b) Taj Mahal, Agra
(c) Gol Gumbaj, Bijapur

Practical
(i) Sketches from Life and Nature
(ii) Exercises of basic design in variation of linear geometric and rhythmic shapes in primary and secondary colours
(iii) One painting on canvas

Note : Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

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(THEORY)

One Theory Paper 40 Marks

Unit wise Weightage

<table>
<thead>
<tr>
<th>Units</th>
<th>Marks</th>
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<tbody>
<tr>
<td>History of Indian Art</td>
<td></td>
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<tr>
<td>1</td>
<td>10</td>
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<td>2</td>
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<td>3</td>
<td>15</td>
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<tr>
<td></td>
<td>40</td>
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</table>
### SUBJECT: COMMERCIAL ART

#### Theory

**UNIT-I**
- (i) Introduction to Pre-historic Rock Painting
- (ii) Study of Pre-historic Painting
  - (a) Wizard Dance, Bhimbethka
- (iii) Introduction to Art of Indus Valley and related areas as Ropar, Lothal, Rangpur, Alamgirpur etc.
- (iv) Study of sculptures and terracottas
  - (a) Dancing Girl
  - (b) Male Torso
  - (c) Mother Goddess
  - (d) Bull Seal
  - (e) Decoration on earthen – war
- (v) Elements of Art and Principles of design

**UNIT-II**
- (i) Introduction to Ajanta and study of Painting & Sculptures
  - (a) Padmapani Bodhisattva
  - (b) Mara Vijay

**Practical**
- (i) Nature and Object Study:
  - (a) Drawing from Still-Life and Nature, medium-pencil monochrome/colour.
  - (b) Knowledge of elements of art and principles of composition through various drawing

#### Theory

**UNIT-II**
- (i) General introduction to Art during Mauryan, Shunga, Kushana, Gandhara and Gupta Period
- (ii) Study of the Sculptures
  - (a) Lion Capital Sarnath
  - (b) Chauri Bearer from Didar Ganj
  - (c) Bodhisattva head from Taxila
  - (d) Seated Buddha from Katra Tila Mathura
  - (e) Seated Buddha from Sarnath
  - (f) Jain Tirathankara

**UNIT-III**
- (i) Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture (6th century A.D.to 13th cent AD)
- (ii) Study of following Temple sculptures
  - (a) Trimurti
  - (b) Lakshmi Narayan Temple
  - (c) Ravana Shaking Mount Kailash
  - (d) Descent of Ganga
  - (e) Cymbal Player, Sun Temple
- (iii) Bronzes (South Indian Bronzes)
  - (c) Nataraj
  - (d) Devi
- (iv) Artistic Aspects of the Indo-Islamic Architecture
  - (a) Qutub Minar, Delhi
  - (b) Taj Mahal, Agra
  - (c) Gol Gumbaj, Bijapur

#### Practical

- (a) Lettering
  - (i) Study of lettering of Roman and Devnagri Scripts
  - (ii) Identification of some type-faces and their sizes
- (b) Layout
  Making a simple layout with lettering as the main component.

**Note:** Full course of Half Yearly Exam will be included in Final Exam.

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**Books prescribed by NCERT.**

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### CLASS–XI (THEORY)

#### One Theory Paper

**Unit wise Weightage**

<table>
<thead>
<tr>
<th>Units</th>
<th>Marks</th>
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<tbody>
<tr>
<td>History of Indian Art</td>
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<tr>
<td>1 Pre-Historic Rock-Paintings and Art of Indus Valley</td>
<td>10</td>
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<tr>
<td>2 Buddhist, Jain and Hindu Art</td>
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</table>

**Time: 2 Hours**

**Marks:** 40
Temple Sculpture Bronze and Artistic aspects of Indo-Islamic Architecture 15

Note: The Syllabus of Applied Art-Commercial Art (Theory) for Class XI is the same as that of Painting (Theory) for Class XI given earlier.

CLASS–XI (PRACTICALS)

One Practical Paper 60 Marks

Unitwise Weightage Time: 6 Hours (3+3)

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<td>2</td>
<td>Lettering and layout 20</td>
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<td>3</td>
<td>Portfolio Assessment 20</td>
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<td><strong>60</strong></td>
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SUBJECT: PSYCHOLOGY

**Theory**
Unit 1: What is Psychology?
Unit 2: Methods of Enquiry in Psychology
Unit 3: The Bases of Human Behaviour
Unit 4: Human Development
Unit 5: Sensory, Attentional and Perceptual Processes

**Practical Examination**
1. Practical (Experiments) file
   (i) Span of Attention
2. Viva Voce (Project and Experiments)
3. One experiment

**Theory**
Unit 6: Learning
Unit 7: Human Memory
Unit 8: Thinking
Unit 9: Motivation and Emotion

**Practical Examination**
1. Practical (Experiments) file
   (i) Learning
   (ii) Memory
   (iii) Motivation
   (iv) Perception
   (v) Span of Attention
2. Project File
3. Viva Voce (Project and Experiments)
4. One experiment

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

**QUESTION WISE BREAK UP**

<table>
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<th>Type of Question</th>
<th>Mark(s) per Question</th>
<th>Total No. of Questions</th>
<th>Total Marks</th>
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</tr>
<tr>
<td>VSA</td>
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<tr>
<td>SAQ 1</td>
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<td>4</td>
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<td><strong>70</strong></td>
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SUBJECT: LEGAL STUDIES

1. Concept of State & Nation
2. Organs of Government
3. Separation of Powers
4. Basic Features of the Constitution of India
5. Nature & Meaning of Law
6. Classification of Law

1. Law Reform
2. Ancient Indian Law
3. Administration of Justice in British India
4. Making of the Indian Constitution
5. Judiciary : Constitutional, Civil & Criminal Courts & Processes
7. Sources of Law

6. Family Justice System

Note: Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

QUESTION WISE BREAK UP

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<th>Type of Question</th>
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SUBJECT: HISTORY

1. From the beginning of time
2. Writing and City Life
3. An Empire Across three continents
4. The central Islamic Lands
5. Nomadic Empire
6. The Three Orders

Map Work

Note: Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

QUESTION WISE BREAK UP

<table>
<thead>
<tr>
<th></th>
<th>VSA 2 Marks</th>
<th>SA 4 Marks</th>
<th>Passage Based</th>
<th>Long Answer</th>
<th>Map Questions</th>
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<td>Section C: Changing Traditions</td>
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<td>4(1)</td>
<td>5(1)</td>
<td>8(1)</td>
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<tr>
<td>Section D: Paths to Modernization</td>
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<td>5(1)</td>
<td>8(1)</td>
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<td>19 Marks +4 marks value question=23</td>
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<td>5(1)</td>
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<tr>
<td>Project work -</td>
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<td></td>
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<td>20 marks</td>
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<tr>
<td></td>
<td>4x2=8</td>
<td>5x4=20</td>
<td>5x3=15</td>
<td>8x4=32</td>
<td>5x1=5</td>
<td>(80+20=100)</td>
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(Note: Value Based Question can be from Section A, B, C, D any carry 04 marks. Accordingly teacher can reduce weightage of the corresponding sections.)