

Syllabus (Class XII) 2017-18

SUBJECT: ENGLISH CORE

TERM-I	TERM-II
<p><u>READING SKILLS (30 marks)</u></p> <ul style="list-style-type: none"> • Unseen passages • Note making and summarizing <p><u>WRITING SKILLS (30 marks)</u></p> <p>(i) Notices, designing or drafting posters & advertisement</p> <p>(ii) Letter types include</p> <ul style="list-style-type: none"> • Business or official letters (for making enquiries, registering complaints, asking for and giving information, placing orders and sending replies) • Application for a job • Letters to the editor (giving suggestions or opinion on issues of public interest) <p>(iii) Article, speech & report writing</p> <p><u>LITERATURE TEXTBOOKS & NOVEL (40 MARKS)</u></p> <p align="center"><u>TEXTBOOK – FLAMINGO</u></p> <p><u>Prose</u></p> <p>L-1 The Last Lesson</p> <p>L-2 Lost Spring</p> <p>L-3 Deep Water</p> <p>L-4 The Rattrap</p> <p><u>Poetry</u></p> <p>P-1 My Mother at Sixty Six</p> <p>P-2 An Elementary School Classroom in a Slum</p> <p>P-3 Keeping Quiet</p> <p align="center"><u>SUPPLEMENTARY READER-VISTAS</u></p> <p>L-1 The Tiger King</p> <p>L-2 The Enemy</p> <p>L-3 Should Wizard Hit Mommy</p> <p>L-4 On the Face of it</p> <p>L-5 Evans Tries an O-level</p> <p>L-6 Memories of Childhood</p> <p><u>NOVEL-The Invisible Man (H.G. Wells)</u></p> <p>Chapters : 1 to 28</p> <p>Note- Read full novel in summer vacations</p>	<p><u>READING SKILLS (30 marks)</u></p> <p>(i) Two unseen passages</p> <p>(ii) Note making and summarizing</p> <p><u>WRITING SKILLS (30 marks)</u></p> <ul style="list-style-type: none"> • writing formal and informal invitations and replies, • Debate <p><u>LITERATURE TEXTBOOKS & NOVEL (40 MARKS)</u></p> <p align="center"><u>TEXTBOOK – FLAMINGO</u></p> <p><u>Prose</u></p> <p>L-5 Indigo</p> <p>L-6 Going Places</p> <p><u>Poetry</u></p> <p>P-4 A Thing of Beauty</p> <p>P-5 Aunt Jennifer’s Tigers</p> <p><u>NOVEL- The Invisible Man (H.G. Wells)</u></p> <p>Chapters : 1 to 28</p> <p><u>Note -</u></p> <p>Course of Term-I and II will be included in Pre-board-I and II.</p>

English Examination Specifications

1. First unseen passage (MCQ – 1 x 4 = 4 marks, VSAQ 1 x 6 = 6 marks and word attack skills 1 x 2 = 2 marks) **12 marks**
2. Second unseen passage (MCQ – 1 x 2 = 2 marks, VSAQ 1 x 6 = 6 marks and word attack skills 1 x 2 = 2 marks) **10 marks**
3. Note-making (a) Notes - abbreviation- 1 + 3 + 1 = 5 marks (b) Summary writing - 2 + 1 = 3 marks **Total 8 marks**
4. Short Answer Questions, e.g., advertisement and notices, designing or drafting posters, writing formal and informal invitations and replies. (1 + 2 + 1 = **4 marks**)
5. Long Answer Questions: Letters based on verbal / visual input.
Letter types include (1 + 3 + 2 = **6 marks**)
(a) Business or official letters (for making enquiries, registering complaints, asking for and giving information, placing orders and sending replies)

- (b) Letters to the editor (giving suggestions or opinion on issues of public interest)
 (c) Application for a job
6. Very Long Answer Question: Compositions based on visual and/or verbal Input may be descriptive or argumentative in nature. Article or Report writing (1 + 4 + 5 = **10 marks**)
 7. Very Long Answer Question: Compositions based on visual and/or verbal Input may be descriptive or argumentative in nature. Debate or Speech (1 + 4 + 5 = **10 marks**)
 8. Four Very Short Answer Questions - Based on an extract from poetry to test comprehension and appreciation. (1 x 4 = **4 marks**)
 9. Four Short Answer Questions - Based on prose / drama / poetry from both the texts. (3 x 4 = **12 marks**)
 10. One Long Answer Question - Based on texts to test global comprehension and extrapolation beyond the texts to bring out the key messages and values. (3 + 3 = **6 marks**)
 11. One Long Answer Question - Based on texts to test global comprehension along with analysis and extrapolation. (3 + 3 = **6 marks**)
 12. One Long Answer Question - Based on theme, plot and incidents from the prescribed novels. (3 + 3 = **6 marks**)
 13. One Long Answer Question - Based on understanding appreciation, analysis and interpretation of the character sketch. (3 + 3 = **6 marks**)

SUBJECT: PHYSICS

Unit I : Electrostatics
 Unit VI: Optics
 Unit VII : Dual Nature of Matter
 Unit VIII : Atoms and Nuclei
 Unit IX : Electronic Devices
 Unit X : Communication Systems

Unit II : Current Electricity
 Unit III : Magnetic effect of current & Magnetism
 Unit IV: Electromagnetic Induction
 and Alternating current
 Unit V : Electromagnetic Waves

List of Experiments

1. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias.
2. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage.
3. To study the characteristic of a common - emitter npn or pnp transistor and to find out the values of current and voltage gains.
4. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
5. To find the refractive index of water using a convex lens and plane mirror
6. To find the focal length of a concave mirror.
7. To find the focal length of a convex lens.

List of Experiments

1. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.
2. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.
3. To verify the laws of combination (series/parallel) of resistances using a metre bridge.
4. To compare the emf of two given primary cells using potentiometer.
5. To determine the internal resistance of given primary cell using potentiometer.
6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
7. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.

Note -

Course of Term-I and II will be included in Pre-board-I and II.

Question Wise Break Up

Type of Question	Mark per Question	Total No. of Questions	Total Marks
VSA	1	5	05
SA-I	2	5	10
SA-II	3	12	36
VBQ	4	1	04
LA	5	3	15
Total		26	70

**PRACTICAL
EVALUATION SCHEME**

Time Allowed: Three hours

Max. Marks: 30

Two experiments one from each section	8+8 Marks
Practical record (experiment and activities)	6 Marks
Investigatory Project	3 Marks
Viva on experiments, activities and project	5 Marks
Total	30 Marks

SUBJECT: CHEMISTRY

Theory

Unit I: Solid State
Unit II: Solutions
Unit III: Electrochemistry
Unit IV: Chemical Kinetics
Unit V: Surface Chemistry
Unit VI: General Principles and Processes of Isolation of Elements
Unit IX: Coordination Compounds
Unit X: Haloalkanes and Haloarenes
Unit XI: Alcohols, Phenols and Ethers
Unit XII : Aldehydes, Ketones and Carboxylic Acids
Unit XIII : Organic Compounds containing Nitrogen

Practicals

1. Volumetric analysis
2. Content based experiments
3. Salt analysis

Theory

Unit VII : The p -Block Elements
Unit VIII : The d -and f -Block Elements
Unit XIV : Biomolecules
Unit XV : Polymers
Unit XVI : Chemistry in Everyday life

Note -

Course of Term-I and II will be included in Pre-board-I and II.

QUESTION WISE BREAK UP

Type of Question	Mark per Question	Total No. of Questions	Total Marks
VSA	1	5	05
SA-I	2	5	10
SA-II	3	12	36
VBQ	4	1	04
LA	5	3	15
Total		26	70

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

L-3 Matrices
L-4 Determinants
L-5 Continuity and Differentiability
L-6 Application of Derivatives
L-7 Integrals
L-8 Application of Integrals
L-9 Differential Equations
L-12 Linear Programming

L-1 Relation and Functions
L-2 Inverse Trigonometric Functions
L-10 Vector Algebra
L-11 Three Dimensional Geometry
L-13 Probability

Note -

Course of Term-I and II will be included in Pre-board-I and II.

QUESTION WISE BREAK UP

Type of Question	Mark per Question	Total No. of Questions	Total Marks
VSA	1	4	04
SA	2	8	16
LA-I	4	11	44
LA-II	6	6	36
Total		29	100

SUBJECT: BIOLOGY

Unit 1: Reproduction

Chapter 1- Reproduction in organisms
 Chapter 2- Sexual Reproduction in Flowering Plants
 Chapter 3- Human Reproduction
 Chapter 4- Reproductive health

Unit 2: Genetics and Evolution

Chapter 5- Principles of Inheritance and Variation
 Chapter 6- Molecular basis of inheritance
 Chapter 7- Evolution

Unit 5: Ecology

Chapter 13- Organisms and Populations
 Chapter 14- Ecosystem
 Chapter 15- Biodiversity and conservation
 Chapter 16- Environmental Issues

Practicals:

A. List of Experiments

1. Study of plant population density by quadrat method
2. Study of plant population frequency by quadrat method
3. Study pollen germination on a slide.
4. Collect and study soil from at least two different sites and study them for texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.
5. Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organisms.
6. Study the presence of suspended particulate matter in air at two widely different sites.
7. Prepare a temporary mount of onion root tip to study mitosis.

B. Study/observation of the following (Spotting)

1. Flowers adapted to pollination by different agencies (wind, insect, bird).
2. Pollen germination on stigma through a permanent slide.
3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
4. Meiosis in onion bud cell or grasshopper testis through permanent slides.
5. T.S. of blastula through permanent slides.
6. Mendelian inheritance using seeds of different

Unit 3: Biology in Human Welfare

Chapter 8- Human Health and disease
 Chapter 9- Strategies for Enhancement in Food Production
 Chapter 10- Microbes in human welfare

Unit 4: Biotechnology

Chapter 11- Biotechnology: Principles and Processes
 Chapter 12- Biotechnology and its Applications

Practicals:

A. List of Experiments:

1. Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch.
2. Isolation of DNA from available plant material such as spinach, green pea seeds, papaya, etc.

B. Study/observation of the following (Spotting)

1. Two plants and two animals (models/virtual images) found in xeric conditions. Comment upon their morphological adaptations.
2. Two plants and two animals (models/virtual images) found in aquatic conditions. Comment upon their morphological adaptations.

Project Work

- colour/sizes of any plant.
7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
 8. Controlled pollination - emasculation, tagging and bagging.
 9. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, Roundworm through permanent slides or specimens. Comment on symptoms of disease that they cause.

QUESTION WISE BREAK UP (THEORY)

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
VSA	1	5	05
SA-I	2	5	10
SA-II	3	12	36
VBQ	4	1	04
LA	5	3	15
Total		26	70

PRACTICALS

Time allowed: 3 Hours

Max. Marks: 30

Evaluation Scheme	
One Major Experiment	5 Marks
One Minor Experiment	4 Marks
Slide Preparation	5 Marks
Spotting	7 Marks
Practical Record + Viva Voce	4 Marks
Project Record + Viva Voce	5 Marks
Total	30 Marks

SUBJECT: ACCOUNTANCY

Part – A

- Ch 1: Accounting for Partnership Firms-Fundamentals
- Ch 2: Goodwill : Nature & Valuation
- Ch 3: Change in Profit-Sharing Ratio among Existing Partners
- Ch 4: Admission of a Partner
- Ch 5: Retirement / Death of a Partner
- Ch 6: Dissolution of a Partnership Firm
- Ch 7: Company Accounts – Accounting for Share Capital

Part – B

- Ch 1: Financial Statements of a Company
- Ch 2: Financial Statement Analysis
- Ch 3: Tools for Financial Statement Analysis

Part – A

- Ch 8: Company Accounts – Issue of Debentures
- Ch 9 : Company Accounts – Redemption of Debentures

Part – B

- Ch 4: Accounting Ratios
- Ch 5: Cash Flow Statement
- Project work

Note -

Course of Term-I and II will be included in Pre-board-I and II.

QUESTION WISE BREAK UP

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
VSAQ	1	8	8
SAQ 1	3	4	12
SAQ 2	4	5	20
LAQ 1	6	4	24
LAQ 2	8	2	16
Total		23	80

SUBJECT: BUSINESS STUDIES

Part A : Principles and Functions of Management

1. Nature and Significance of Management
2. Principles of Management
3. Business Environment
4. Planning
5. Organizing
6. Staffing
7. Directing
8. Controlling
9. Project Work

Part B: Business Finance and Marketing

9. Financial Management
10. Financial Markets
11. Marketing Management
12. Consumer Protection
13. Project work

Note -

Course of Term-I and II will be included in Pre-board-I and II.

QUESTION WISE BREAK UP

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
VSAQ	1	8	08
SAQ 1	3	5	15
SAQ 2	4	6	24
LAQ	5	3	15
Essay Type	6	3	18
Total		25	80

Project Work 20 marks: **File-1** (6 marks) and Viva (4 marks), **File-2** (6 marks) and Viva (4 marks)

SUBJECT: ECONOMICS

Part – A

1. Introduction
2. Consumers Equilibrium and Demand
3. Producer behaviour and Supply
4. Forms of Market

Part – B

6. Money and Banking
8. The Government Budget the Economy

Part – A

4. Price Determination Under Perfect Competition with Simple Application

Part – B

5. National Income and Related Aggregates
7. Determination of Income and Employment
9. Balance of Payments

Practical 20 marks

Note -

Course of Term-I and II will be included in Pre-board-I and II.

QUESTION WISE BREAK UP

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
VSAQ	1	8	8
SAQ 1	3	4	12
SAQ 2	4	6	24
LAQ	6	6	36
Total		24	80

SUBJECT: ENTREPRENEURSHIP

Unit-1: Entrepreneurial Opportunity Unit-2 : Enterprise Planning Unit-3: Enterprise Marketing Unit-4 : Enterprise Growth Strategies Project Work	Unit-5 : Business Arithmetic Unit-6 : Resource Mobilization Project Work Note - Course of Term-I and II will be included in Pre-board-I and II.
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QUESTION WISE BREAK UP

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
VSAQ	1	5	05
SAQ	2	5	10
LAQ 1	3	7	21
LAQ 2	4	4	16
Essay Type	6	3	18
Total		24	70

SUBJECT: PHYSICAL EDUCATION

Unit-I: Planning in Sports Unit-II: Sports and Nutrition Unit-III : Yoga & Lifestyle Unit-IV : Physical Education & Sports for Differently-Abled Unit-V: Children and Sports Unit-VI: Women & Sports	Unit-VII: Test and Measurement in Sports Unit-VIII: Physiology and Sports Unit-IX: Sports Medicine Unit-X : Kinesiology, Biomechanics & Sports Unit-XI: Psychology and Sports Unit-XII: Training in Sports Practicals Note - Course of Term-I and II will be included in Pre-board-I and II.
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QUESTION WISE BREAK UP

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
VSAQ	1	11	11
SAQ	3	8	24
LAQ	5	7	35
Total		26	70

SUBJECT: INFORMATICS PRACTICES (Book by – Sumita Arora)**Unit 1: Networking and Open Standards**

Ch-1: Computer Networking
Ch. 2: Open Source Concepts

Unit 2: Programming

Ch.3 : Java GUI Programming Revision Tour-I
Ch.4 : Java GUI Programming Revision Tour-II
Ch.5 : Java GUI Programming Revision Tour-III

Unit 3: Relational Database Management System

Ch. 13 : My SQL Revision Tour
Ch. 14 : Database Transactions
Ch. 15 : More on SQL – Grouping Records and Table Joins
Ch. 16 : Tables and Integrity Constraints

Unit 1: Programming

Ch. 6 : More about classes and libraries
Ch. 7 : Concept of Inheritance
Ch. 8 : Database Connectivity to My SQL
Ch. 9 : Web Application Development
Ch. 10: HTML-I : Basic HTML Elements
Ch. 11: HTML-II : Lists, Tables and Forms
Ch. 12 : XML – Extensible Markup Language

Unit 2 : IT Applications

Ch. 17 : IT Applications

Note -

Course of Term-I and II will be included in Pre-board-I and II.

QUESTION WISE BREAK UP

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
VSAQ	1	12	12
SAQ 1	2	9	18
SAQ 2	4	7	28
LAQ	6	2	12
Total		30	70

SUBJECT: PSYCHOLOGY**Theory**

Unit I : Variations in Psychological Attributes
Unit II : Self and Personality
Unit III : Meeting Life Challenges
Unit IV : Psychological Disorders
Unit V : Therapeutic Approaches

Practical Examination

- Development of case profile:
Using appropriate methods like, interview, observation and psychological tests.
- Test administration:
Students are required to administer and interpret five tests.
- Viva Voce (Project)
- In Practical examination, the student will be required to administer and interpret two psychological tests.

Theory

Unit VI : Attitude and Social Cognition
Unit VII : Social Influence and Group Processes
Unit VIII : Psychology and Life
Unit IX : Developing Psychological Skills

Practical Examination

- Intelligence
- Personality
- Interest
- Adjustment
- Stress
- Self-concept

QUESTION WISE BREAK UP

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
LC	1	10	10
VSA	2	6	12
SAQ 1	3	4	12
SAQ 2	4	6	24
LAQ	6	2	12
Total		28	70

SUBJECT: PAINTING**Theory****UNIT-I****The Rajasthani and Pahari Schools of Miniature Painting****(A) The Rajasthani School:**

- 1) Origin and Development
- 2) Sub-Schools-Mewar, Bundi, Jodhpur, Bikaner, Kishangarh and Jaipur
- 3) Main features of the Rajasthani School
- 4) Study of the following Rajasthani Paintings:

Title	Painter	Sub-School
Maru-Ragini	Sahibdin	Mewar
Raja Aniruddha Singh Hara	Utkal Ram	Bundi
Chaugan Players	Dana	Jodhpur
Krishna on swing	Nuruddin	Bikaner
Radha (Bani- Thani)	Nihal Chand	Kishangarh
Bharat Meets Rama at Chitrakut	Guman	Jaipur

(B) The Pahari School:

- 1) Origin and development
- 2) Sub-Schools-Basohli, Guler, Kangra, Chamba and Garhwal
- 3) Main features of the Pahari School
- 4) Study of the following Pahari Paintings:

Title	Painter	Sub-School
Krishna with Gopis	Manaku	Basohli
Bharat Worshipping		
Charan Padukas of Rama	Unknown	Guler
Cosmic Dance of Shiva	Unknown	Chamba
Nand, Yashoda and Krishna with Kinsmen going to Vrindavana	Nainsukh	Kangra
Radha and Krishna Looking into a Mirror	Unknown	Garhwal

UNIT-II**The Mughal and Deccan Schools of Miniature Painting****(A) The Mughal School**

- 1) Origin and development
- 2) Main features of the Mughal School
- 3) Study of the following Mughal Paintings:

Title	Painter	Sub-School
Krishna Lifting Mount Goverdhana	Miskin	Akbar
Babur Crossing the River Sone	Unknown	Akbar
Jahangir Holding the Picture of Madona	Abul Hassan	Jahangir
Falcon on a Bird-Rest	Ustad Mansoor	Jahangir
Kabir and Raidas	Ustad Faquirullah Khan	Shahjahan
Marriage procession of Dara Shikoh	Haji Madni	Provincial Mughal (Avadh)

(B) The Deccan School

- 1) Origin and development
- 2) Main features of the Deccan School
- 3) Study of the following Deccan Paintings:

Title	Painter	Sub-School
Ragini Pathamsika	Unknown	Ahmadnagar
Sultan Abdulla Qutb Shah	Unknown	Bijapur
Hazrat Nizamuddin Auliya and Amir	Unknown	Hyderabad

Theory**UNIT-III****The Bengal School of Painting**

- (A) (I) A. New Era in Indian Art-an introduction
- (II) Evolution of the Indian National Flag -Study of the form and the colour scheme
- (B) (I) Introduction to the Bengal School of Painting
- (II) Contribution of Indian artists in the struggle for National Freedom Movement
- (III) Study of the famous paintings of the Bengal school:
 - Journey's End - Abanindranath Tagore
 - Tiller of the Soil - Nandlal Bose
 - Rasa-Lila - Kshitindranath Majumdar
 - Radhika - M.A.R. Chughtai
 - Meghdoot - Ram Gopal Vijaivargiya
 - Arjun Detach From War - Sarada Charan Ukil

UNIT-IV**The Modern Trends in Indian Art**

Study of the following work of Contemporary (Modern) Indian Art

(a) Paintings

- (i) Rama Vanquishing the Pride of the Ocean – Raja Ravi Varma
- (ii) Magician - Gaganendranath Tagore
- (iii) Mother and child - Jamini Roy
- (iv) Three Girls - Amrita Sher Gil
- (v) Mother Teresa - M.F. Husain
- (vi) Gossip - N.S. Bendre
- (vii) Untitled - G.R. Santosh
- (viii) The Vulture - Kamlesh Dutt
- (ix) Words and Symbole - K.C.

(b) Graphic - prints:

- (i) Whirl pool - Krishna Reddy
- (ii) Children - Somnath Hore
- (iii) Devi - Jyoti Bhatt
- (iv) Of Walls - Anupam Sud
- (v) Man, Woman and Tree - K. Laxma Goud

(c) Sculptures:

- (i) Triumph of Labour - D. P. Roychowdhury
- (ii) Santhal Family - Ramkinkar Vajj
- (iii) Cries Un - heard - Amar Nath Sehgal
- (iv) Ganesha - P.V. Jankiram
- (v) Chatturmukhi - Aekka Yada Giri Rao
- (vi) Vanshri - Mrinaliru Mukherjee

Practical Work

- (i) Paintings based on subjects from Life and or Nature in water and poster colours.
- (ii) One painting on canvas by oil or acrylic colours.

Khusro		
Dancers	Unknown	Hyderabad
Chand Bibi Playing Polo (Chaugan)	Unknown	Gol Konda

(iii) Compositions of affairs of family friends and daily life.

Practical Work

(i) Nature and Object Study :

Studies on the basis of exercises done in class XI with two or three objects and drapery for background. Exercises in pencil with light and shade and in full colour from a fixed point of view.

(ii) Composition of games and sports activities, nature, cultural, historical and social events.

Note -

1. Course of Term-I will be included in Pre-board-1.
2. Course of Term-I and Pre-board -1 will be included in Pre-board-2.

QUESTION WISE BREAK UP

Type of Question	Mark(s) per Question	Total No. of Questions	Total Marks
VSA	5	3	15
LAQ 1	5	3	15
LAQ 2	5	2	10
Total		8	40

(THEORY)

One Theory Paper

40 Marks

Unitwise Weightage

Time: 2 Hours

Units		Marks
1	The Rajasthani and Pahari Schools of Miniature Painting	10
2	The Mughal and Deccan Schools of Miniature Painting	10
3	The Indian National Flag and the Bengal School of Painting	10
4	The Modern Trends in Indian Art	10
		40

(PRACTICAL)

One Practical Paper

60 Marks

Unitwise Weightage

Time: 6 Hours (3+3)

Units		Marks
1	Nature, and Object Study	20
2	Painting Composition	20
3	Portfolio Assessment	20
		60