METHODIST HIGH SCHOOL

(I.S.C.BOARD)

SYLLABUS
2019-2020
CLASS-XII-A/B/C/D

ENGLISH LANGUAGE

April

Book – Total English

- Specimen Paper 1
- Report Writing – Personal Profile / Accident
- Proposal Writing – Setting up a Dramatic Club
- Grammar

- Specimen Paper 2
- Report Writing – Exhibition of Handicrafts
- Proposal Writing – Setting up a Culinary Club
- Grammar

May

Book – Total English

- Specimen Paper 3
- Report Writing – Film Review
- Proposal Writing – Organising an Excursion
- Grammar

Home Work for Summer Vacation – Specimen Paper 4 and 5

July

Book – Total English

- Specimen Paper 6
- Report Writing – Travel Brochure / Account of a Cricket Match
- Proposal Writing – Starting a Skill Development Centre
- Grammar

August

Book – Total English

- Specimen Paper 7
- Report Writing – Cultural Fest.
- Proposal Writing – Setting up a Garden Club
- Grammar: Tenses

September

Book – Total English

- Specimen Paper 8
- Report Writing – Statement of Purpose
- Proposal Writing – Organising a Cleanliness Drive
- Grammar

(First Term Examination)

October
Book – Total English

- Specimen Paper 9
- Report Writing: Article Writing
- Proposal Writing: Conducting Story Telling Competition
- Grammar

November
Book – Total English

- Specimen Paper 10 and 12
- Report Writing: Annual Day Review / Speech Writing
- Proposal Writing: Collecting material for School Magazine / Proposal to MLA to check scarcity of water
- Grammar

(Revision / Prelims 1 and 2)

ENGLISH LITERATURE

April
Shakespeare: The Tempest

- Act 1V scene 1

Echoes: Short Stories

- To Build a Fire

May
Shakespeare: The Tempest

- Act 1V scene 1 (Cont'd)

Reverie: Poems

- The Darkling Thrush

July
Shakespeare: The Tempest

- Act 1V scene 1 (Cont'd)

Echoes: Short Stories

- The Story of an Hour

Reverie: Poems

- Birches

August
Shakespeare: The Tempest

- Act V scene 1

Echoes: Short Stories

- The Singing Lesson

Reverie: Poems

- Crossing the Bar

September

Reverie: Poems

- Dover Beach

(Term One Examination)

October

Shakespeare: The Tempest

- Act V scene 1 (Cont'd)

Echoes: Short Stories

- The Sound Machine

Reverie: Poems

- We are the Music Makers

November

Echoes: Short Stories

- B Wordsworth

(Revision / Prelims 1 and 2)

ECONOMICS

April-May	**July-August**
1 Demand and its determinants 2 Consumers equilibrium 3 Elasticity of Demand 4 Supply and its elasticity 5 Market Equilibrium ➢ **UNIT 1** –Chapters 1 ,2 and 3 as given above (25 marks) ➢ **Holiday Homework – 2 PROJECTS** Money and its usage in todays world Taxation ..types…need…fiscal policy	1 Laws of returns to scale 2 Cost and Revenue 3 Forms of markets 4 Rules of Equilibrium 5 Producers equilibrium 6 Theory of income and employment

September	**October-December**
➢ **Half yearly examinations –one theory paper of 80 marks**	1 Money and Banking 2 Taxation and Budget 3 International Trade 4 National Income ➢ December Prelims (80 marks) ➢ January Prelims-2 (80 marks)
	March
	➢ Final exams

BUSSINESS STUDIES

UNIT 1- (First Four Chapters)

Chapter-1.	Introduction to Human Resource Management
Chapter-2.	Job and Manpower Planning
Chapter-3.	Staff Recruitment
Chapter-4.	Staff Selection
FIRST TERM / TERM - I	
Chapter-5.	Staff Training
Chapter-6.	Staff Morale
Chapter-7.	Staff Motivation
Chapter-8.	Staff Remuneration
Chapter-9.	Staff Leadership
Chapter-10.	Staff Appraisal
Chapter-11.	Staff Promotion and Transfer
Chapter-12.	Staff Separation
Chapter-13.	Emerging Trends in Human Resources
Chapter-14.	Business Communication
* Includes chapters of Unit 1 also.	
FINAL TERM / TERM - 2	
Chapter-15.	Business Correspondence
Chapter-16.	Reports and Report Writing
Chapter-17.	Various Business Entities
Chapter-18.	Sources of Business Finance
Chapter-19.	Globalisation

Chapter-20.	E. Business
Chapter-21.	Outsourcing
Chapter-22.	Business Regulators and Intermediaries.
*Includes all chapters of First Term also.	

ACCOUNTS

	TERM 1
01	Business environment
02	Consumer protection.
03	Capital-fixed and working
04	Sources of finance for a joint stock company
05	Banking –Latest trends
06	Management-meaning nature and importance
07	Principles of management
08	Functions of management and coordination.
09	Planning
10	Organizing
11	Staffing
	UNIT 1
	Business environment
	Consumer protection
	Capital-fixed and working
	Half yearly –all the chapters of term 1
	TERM 2
12	Directing
13	Controlling
14	Marketing-concept and functions
15	Marketing mix
	Pre prelims- full syllabus
	Prelims-full syllabus

COMMERCE

Chapter	TERM 1
1	Fundamentals of partnership
2	Goodwill
3	Admission
4	Retirement and death of a partner
5	Dissolution of partnership firm
	UNIT 1
	Fundamentals of partnership
	Goodwill
	Half yearly =all the chapters of term 1
	TERM 2
6	Issue of shares
7	Issue of debentures
8	Redemption of debentures
9	Final accounts of companies
10	Financial statement analysis
11	Cash flow statement
12	Ratio analysis
	Pre-prelims- full syllabus
	Prelims - full syllabus

MATHS

Books- UNDERSTANDING ISC MATHEMATICS BY M L AGARWAL VOLUME 1,2 for class XII

TERM 1	
1.Relations and Functions –chap 1 (UT1)	8.Integrals-chap8
2.Inverse trigonometric functions-chap 2 (UT1)	9. Differential Equations-chap 9
3. Matrices-chap 3 (UT1)	10. Probability-chap 10
4. Determinants-chap 4(UT1)	
5. Continuity and Differentiability-chap 5 (UT1)	
6. Indeterminate forms-chap 6	
7. Application of Derivatives-chap 7	
TERM 2	
Section B	**OR Section C**
1.Vectors-chap 1	1. Application of Calculus in Commerce & Economics- chap 1
2. Three Dimensional Geometry-chap 2	2.Linear Regression –chap 2
3. Application of Integrals –chap 3	3.Linear Programming- chap 3

BIOLOGY

There will be two papers in the subject.

Paper I : Theory : 3 hours : [70]

Paper II : Practical : 3 hours : [15]; Project Work : [10]; Practical File : [5]

UNIT 1

1) Reproduction in Organisms
2) Reproduction in Flowering Plants
3) Principles of Inheritance and Variation
4) Human Health and Diseases

TERM I

5) Evolution
6) Molecular Basis of Inheritance
7) Human Reproduction
8) Reproductive Health
9) Strategies for Enhancement in Food Production

TERM I EXAM: All 9 chapters as above + Practicals

UNIT 2

10) Biotechnology: Principles and Practices
11) Biotechnology: Applications
12) Organisms and Populations
13) Ecosystems

TERM II

14) Microbes in Human Welfare
15) Biodiversity and its Conservation
16) Environmental Issues

TERM II EXAM: All 16 chapters as above + Practicals

PROJECT FILE (on any one of the given topics): To be done during summer vacations.

1) Genetic disorders
2) Gene therapy
3) Human Genome Project
4) DNA fingerprinting
5) Bio-piracy
6) Cancer
7) AIDS/Hepatitis
8) Phytohormones
9) Drug addiction and community

10) Role of micro-organisms in industry of alcohol/commercial industry
11) Human population
12) Mendelian Inheritance
13) Environmental resistance
14) Role of agrochemicals in increasing food production
15) Traditional and modern methods: Study of a few traditional methods of pest deterrence vis-a-vis modern methods of pest control - viability of traditional methods in today's scenario and limitations and dangers of modern methods.

Format of the Project:

- *Content*
- *Introduction*
- *Presentation (graphs, tables, charts, newspaper cuttings, handmade diagrams, photographs, statistical analysis if relevant)*
- *Conclusion/ Summary*
- *Bibliography*
- *Projects should be handwritten by the candidate.*
- *The written pages should be at least 20 pages*

CHEMISTRY

Term 1

April-May

1. Solutions
2. Haloalkanes and Haloarenes
3. Alcohols, Phenols and Ethers
4. Aldehydes and Ketones

July

5. Carboxylic acids
6. Organic Compounds containing Nitrogen
7. Electrochemistry
8. Kinetics

Aug-Sep

9. Coordination Compounds
10. p-block Elements
11. df-block Elements

Half Yearly Exam – All 10 topics covered till now.

Oct-Nov

12. Solid State
13. Surface Chemistry
14. General Principles and Processes of Isolation of Elements

Notes will be provided for these Topics.

15. Polymers
16. Chemistry in E. life
17. Biomolecules

PRELIMS full syllabus as prescribed by the council.

PHYSICS

Term I

Apr, May

1. Coulomb's Law
2. Electric Field; Electric Dipole
3. Gauss Theorem
4. Electric Potential
5. Capacitors and Dielectrics
6. Prepare from Notes on

a) Structure of Atom and Origin of Spectra: Bohr Theory of Hydrogen Atom

b) Communication System.

Jul

1. Electric Potential
2. Capacitors and Dielectrics
3. Electric Resistance and Ohm's Law
4. Heating Effect of Current
5. DC circuits Kirchhoff’s Law and Measurement by Potentiometer and Wheatstone’s Bridge

Aug-Sep

1. Magnetic Effect of Current
2. Magnetic Torque on a Current Loop: Moving Coil Galvanometer
3. Ammeters and Voltmeters.
4. Electromagnetic Induction
5. AC generator and AC circuits
6. Magnetic Field and Earth's Magnetism
7. Magnetic Classification of Substances.

Half-Yearly

All the topics covered in UT-1 and UT-2

Term I

Oct

1. emWaves
2. Wave Nature of Light: Huygen's Principle
3. Interference, Diffraction and Polarization
4. Refraction of Light at Plane Surfaces
5. Refraction of Light Through Prism
6. Dispersion of Light: Spectrometer and Spectra
7. Refraction of Light at Spherical Surfaces: Lenses
8. Spherical and Chromatic Aberration in Lenses
9. Microscope and Telescope

Nov

1. emWaves
2. Wave Nature of Light: Huygen's Principle

3. Interference, Diffraction and Polarization
4. Logic Gates
5. Prepare from Notes on
a) Photoelectric Effect
b) Wave Particle Duality, Matter Waves
c) Radioactivity
d) Energy Mass Equivalence: Nuclear Binding Energy
e) Nuclear Fission and Nuclear Fusion: Sources of Energy.
f) Conductors, Insulators and Semiconductors and Junction Diodes.
g) Transistors.

PRELIMS

All the topics as prescribed by the Council for Indian School Certificate Examinations in their book of
Regulation and Syllabus.

HINDI

Class	Subject	Term I	Term II
Class XII A.B.C.D	**Books** गद्य संकलन काव्य मंजरी सारा आकाश (उपन्यास) व्याकरण मंजूषा	**Unit I,** **Section – A** मजबूरी, सारा आकाश **Chepters (1 – 4)** **Half Yearly Exam** **Section – A** निबन्ध, कहानी शुद्ध शब्द, मुहावरे अपठित गद्यांश **Section – B** **गद्य संकलन –** शरणागत, दासी, मजबूरी, आउट साइडर, संस्कृति क्या है ? **काव्य मंजरी –** साखी, बाल लीला, जाग तुझे दूर जाना है, उदयमी नर, तुलसी के पद, **सारा आकाश –** चरित्र चित्रण, तत्कालीन स्त्री की दशा संयुक्त परिवार के विघटंन, संवाद प्रश्नोत्तर **Chepters (5 – 10)** **(Total -10) Question** **Note – Unit I will be included in Ist Term Exam**	**Unit-II,** **Section A** निबन्ध, कहानी, मुहावरे, शुद्ध शब्द, अपठित गद्यांश **Section – B** **गद्य संकलन –** भक्तिन, दासी, सती, गौरी, क्या निराश हुआ जाए, **काव्य मंजरी –** नदी के द्वीप, एक फूल की चाह, धरती कितना देती है, अँधेरे का दीपक **सारा आकाश –** पर्दा प्रथा, प्रभा और समर का मनोमालिन्य कैसे मिट गया, समाज में होने वाले परिवर्तन, समर की निराशा का क्या कारण था ? संवाद प्रश्नोत्तर **Chepters (11 – 20)** **(Total -10) Question** **Note – Full Course will be included in Final Exam.**

COMPUTER

UNIT-I

- Boolean Algebra
- Objects & Classes
- Programming Revision of class XI.
- Recursion
- Exception handling

Term-I Total Marks: 100 70 marks-Theory 30 marks- Practical/Assignment

- Boolean Algebra
- Objects & Classes
- Programming Revision of class XI.
- Recursion
- Exception handling
- Arrays & Strings.

UNIT-II

- Concept of Inheritance
- Simple Data Structure(Linear & Non Linear both)
- Recursive Data Structure
- Computational Complexity

Prelims: Total Marks: 100 70 marks-Theory 30 marks- Practical/Assignment

- Entire Syllabus
- Practical/ Programming Assignment

PHYSICAL EDUCATION

SECTION A: THEORY (40 MARKS)

CLASS: XII

Chapter .1 SOCIOLOGICAL ASPECT OF PHYSICAL EDUCATION [unit.1]

- Games and Sports as Man's Cultural Heritage.
- Development of an Individual through games and sports.
- Role of physical education in promoting national integration.
- Physical education and personality development.

Chapter .2 TRAINING METHODS [unit.1]

- Training in Sports
- Methods and Importance of Sports Training

Chapter .3 CAREER ASPECTS IN PHYSICAL EDUCATION [unit.1]

- Meaning and definition of health education.
- Principles and importance of health education

CHAPTER.4 COMPETETIONS AND TOURNAMENTS

- Meaning and types of tournaments.
- Types of competitions.
- Names of national and international federations.

CHAPTER.5 HEALTH EDUCATION AND HEALTH PROBLEMS [1st term]-All Chapters 1-5

- Meaning and definition of health education.
- Principles and importance of health education

CHAPTER. 6 .DISABILITY, REHABILITATION AND EFFECTS OF EXERCISE

- Meaning, causes, prevention of disability. **[unit.2]**
- Meaning and scope of rehabilitation.
- Role of community in rehabilitation.

CHAPTER.7 POSTURE [unit.2]

- Meaning and advantages of correct posture.
- Postural deformities and their corrective measures.

CHAPTER. 8 PERSONAL HYGIENE AND SLEEP REQUIREMENTS

- Meaning and importance of personal hygiene.
- Cleanliness and care of the body.
- Sleep requirements table.

CHAPTER. 9 SUBSTANCE ABUSE

- Effects of alcohol.
- Effects of banned drugs.

- Effects of Smoking.
- Drugs and Drug abuse.
- Substances banned in competitions.

CHAPTER.10 SPORTS INJURIES AND FIRST AID

- Types of sport injuries.
- Causes and prevention of sport injuries.
- Meaning and importance of First aid.
- Procedures to save a person from drowning.
- CPR and PRICE.

PRE-PRELIMS: ALL CHAPTERS OF SECTION.A AND BOTH GAMES SEC.B

PRELIMS: ALL CHAPTERS OF SECTION.A AND BOTH GAMES SEC.B

SECTION. B [30 marks]

CRICKET

- Knowledge of the game
- Rules of the game.
- Field of play dimensions and specifications of all equipment's.
- Players and officials, duties and responsibilities.
- Types of matches, tournaments international and national.
- Fundamental skills and techniques of batting, Bowling, Fielding etc.
- Types of spin and pace bowling variations.
- Types of strokes played by the batsman.
- Wicket keeper skills.
- All positions of fielders during the match.
- Duty of captain and restrictions on substitute.
- Extra runs, penalty runs, ball tampering, various signals etc.
- Associated terminology of cricket.
- All 44 Laws of cricket.

FOOTBALL

- Knowledge of the game
- Rules of the game.
- Field of play dimensions and specifications of all equipment's.
- Players and officials, duties and responsibilities.
- Duration of matches, injury time, extra time, tie breaker, sudden death.
- Penalty cards, referees and players equipment's.
- Duties of the Referee and assistant referees before and during Match.
- Procedure of throw-in, penalty kick, direct and indirect kick, kick-off etc.
- Start and restart of play, offside, goal kick etc.
- Types of matches, tournaments international and national.

- Fundamental skills and techniques of passing, shooting, trapping etc.
- Associated terminology of football.
- All 20 laws of football.

PRACTCALS [30 MARKS

PRINCIPAL
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