

DOUGLAS MEMORIAL HIGHER SECONDARY SCHOOL

SYLLABUS – 2018-19

CLASS – XII

ENGLISH PAPER – I

Pre Selection Examination :

- Composition
- Report Writing
- Proposal Writing
- Comprehension Passage
- Functional Grammar

Selection Examination :

- Composition
- Report Writing
- Proposal Writing
- Comprehension Passage
- Functional Grammar

ENGLISH PAPER – II

Pre Selection Examination :

- Prose :
- A Gorilla in the Guest Room
 - The Singing Lesson
 - The Sound Machine
- Poem :
- Dover Beach
 - John Brown
 - Desiderata
 - We are the Music Makers
- Play :
- The Tempest Act. III
Act. I [Revision]

Selection Examination :

- Prose :
- Chapter [1-10]
- Poem :
- Chapter [1-10]
- Play :
- The Tempest [Act. I-V]

BENGALI 2nd LANGUAGE

Pre Selection Examination :

- প্রবন্ধ ও গদ্য সংকলন :
1. আদাব
 2. লছমনের মা
 3. না-পাহারার পরীক্ষা
- কবিতা সংকলন :
1. যদি নির্বাসন দাও
 2. স্বাধীনতা তুমি
 3. নুন

কোণি : ১১-১৪ (অধ্যায়)

ব্যাকরণ : রচনা, বোধ পরীক্ষণ, বাগধারা, বাক্য ও বানান শুদ্ধিকরণ

Selection Examination :

- প্রবন্ধ ও গদ্য সংকলন :
1. একটি তুলসী গাছের কাহিনি
পুনরালোচনা : প্রতিটি গল্প ও প্রবন্ধ
- কবিতা সংকলন :
1. রাস্তা কারও একার নয়
পুনরালোচনা : প্রতিটি কবিতা

কোণি : সম্পূর্ণ বই

ব্যাকরণ : রচনা, বোধ পরীক্ষণ, বর্ষাধারা, বাক্য ও বানান শুদ্ধিকরণ
পুনরালোচনা : ব্যাকরণের প্রতিটি বিষয়

HINDI 2nd LANGUAGE

Pre Selection Examination :

किताब : गद्य संकलन

- अध्याय :
1. दासी
 2. क्या निराश हुआ जाए
 3. भक्तिन

किताब : काव्य चंद्रिका

- अध्याय :
1. तुलसी के पद
 2. उद्यमी नर
 3. बादल को घिरते देखा

किताब : सारा आकाश (उपन्यास)

अध्याय : उत्तरार्द्ध भाग (1 से 8 तक)

- व्याकरण :
1. मुहावरे
 2. अशुद्ध वाक्य को शुद्ध करो
 3. निबंध
 4. अपठित गद्यांश

Selection Examination :

किताब : गद्य संकलन

अध्याय : मजबूरी
(प्रत्येक अध्याय का पुनः अवलोकन)

किताब : काव्य चंद्रिका

अध्याय : अंधेरे का दीपक
(प्रत्येक अध्याय का पुनः अवलोकन)

किताब : सारा आकाश (उपन्यास)

अध्याय : 9 और 10 (सम्पूर्ण उपन्यास)

MATHEMATICS

Pre Selection Examination :

1. Relation and Function
2. Inverse Trigonometric Functions
3. Matrices
4. Determinants
5. Continuity Differentiability
6. Indeterminate Forms
7. Application of Derivatives
8. Indefinite Integrals
9. Vectors
10. 3-D
11. Linear Regression
12. Linear Programming Problem
13. Application of Calculus in Commerce

Selection Examination :

Full Syllabus

PHYSICS

Pre Selection Examination :

1. Electrostatics
2. Current Electricity
3. Magnetism
4. Ray Optics
5. Photoelectric Effect, De Broglie
6. Atom
7. Nuclei
8. Nuclear Reaction
9. Nuclear Energy
10. Semiconductor Physics

Selection Examination :

Full Syllabus

CHEMISTRY

Pre Selection Examination :

- Chapter – 3 : Electrochemistry
- Chapter – 4 : Chemical Kinetics
- Chapter – 5 : Surface Chemistry
- Chapter – 6 : General Principles and Processes of Isolation of Elements.
- Chapter – 9 : Coordination Compounds
- Chapter – 10 : Haloalkanes and Haloarenes
- Chapter – 11 : Alcohols, Phenols and Ethers

Selection Examination :

- Chapter – 1 : Solid State
- Chapter – 2 : Solutions
- Chapter – 7 : p-Block Elements
- Chapter – 8 : d and f-Block Elements
- Chapter – 12 : Aldehydes, Ketones and Carboxylic Acids
- Chapter – 13 : Organic Compounds Containing Nitrogen
- Chapter – 14 : Biomolecules
- Chapter – 15 : Polymers
- Chapter – 16 : Chemistry in Everyday Life

[All Pre Selection Chapters are Included]

BIOLOGY

Pre Selection Examination :

- Unit – 1 Reproduction
 - Ch – 1 : Reproduction in Organisms
 - Ch – 2 : Sexual Reproduction in Flowering Plants.

- Unit – 2 Genetics and Evolution
 - Ch – 1 : Principles of Inheritance and Variation.
 - Ch – 2 : Molecular Basis of Inheritance
- Unit – 3 Biology and Human Welfare
 - Ch – 1 : Human Health and Diseases
 - Ch – 2 : Strategies for Enhancement in Food Production.
- Unit – 4 Biotechnology and its Applications
 - Ch – 1 : Biotechnology Principles and Processes.
 - Ch – 2 : Biotechnology and its Applications
- Unit – 5 Ecology and Environment
 - Ch – 1 : Organisms and Population
 - Ch – 2 : Ecosystems

Selection Examination :

- Unit – 1 Reproduction
 - Ch – 3 : Human Reproduction
 - Ch – 4 : Reproductive Health
- Unit – 2 Genetics and Evolution
 - Ch – 3 : Evolution
- Unit – 3 Biology and Human Welfare
 - Ch – 4 : Microbes in Human Welfare
- Unit – 5 Ecology and Environment
 - Ch – 3 : Biodiversity and its Conservation
 - Ch – 4 : Environmental Issues

Whole Syllabus

HISTORY

Pre Selection Examination :**Indian :**

1. Towards Independence and Partition
 - a) Important Political Developments in Late 1930 & 1940.
 - b) Working of Provincial Autonomy
 - c) National Movements During 2nd W.W.
 - d) Subhash Chandra Bose and INA
 - e) Transfer of Power
2. Establishment and Development of Indian Democracy
 - a) Refugee Problem, Water Dispute
 - b) Origin of the Kashmir Problem
 - c) Foundation of Indian Democracy
 - d) Linguistic Reorganisation of States
3. Challenges to Indian Democracy [1954-1977]
 - a) Role of Syndicate : Lal Bahadur Shahstri and Indira Gandhi as P.M. Election of 1967.
 - b) Naxal Movement [1967]
 - c) J. P. Movement [1974-75]
 - d) Emergency [1975-76]
4. Changing Face of the Indian Democracy [1977-1986]
 - a) The Janata Government [1977-1979]
 - b) Return of Congress to Power [1979-1986]

World :

5. World War II
 - a) Factors Leading to War
 - b) Anglo-French Appeasement Policies
 - c) Course of the War
 - d) Reasons for Defeat of the Axis Powers

6. De-colonisation in Asia and Africa
 - a) China
 - b) Ghana
 - c) Kenya
7. Cold War [1945-1991]
 - a) Origin of the Cold War
 - b) Expansion of Cold War
 - c) Breakup of USSR and Changes in Eastern Europe : USSR, Germany, Poland and Czechoslovakia.
8. Protest Movements
 - a) Racial Problems and Civil Rights in USA
 - b) Anti-Apartheid Movement in South Africa
 - c) Feminist Movement

Selection Examination :**Indian :**

1. India's Foreign Policy
 - a) Non-Aligned Movement
 - b) Indo-Pak Wars [1948-49, 1965, 1971]
 - c) Sino-Indian War [1962]
2. Movement for Women's Rights
 - a) Towards Equality Report [1974]
 - b) Anti-dowry Movement and Struggle against Domestic Violence.

World :

3. Middle East : Israeli-Palestine Conflict [1016-1993]
 - a) Post War Conflict in Palestine After World War I
 - b) Arab-Israeli Wars [1948-1979]

Full Book

All the Previous Chapters of Indian and World History.

GEOGRAPHY

Pre Selection Examination :

- Migration Trends
- Population
- Demographic Attributes
- Rural and Urban Settlements
- Environmental Management and Land use
- Water Resources and Types of Irrigation
- Fisheries
- Regional and Economic Development

Practical : Scales, Representation of Relief

Map Pointing : Map of India

Selection Examination :

- Transport and Communication
- Agriculture
- Minerals and Power Resources
- Industry
- Tourism Industry

[All the Chapters of Pre Selection are in the Syllabus.]

Practical : Surveying, Topographical Maps

Map Pointing : Map of India

SOCIOLOGY

Pre Selection Examination :

1. Political Organisation
2. Tribal India – Past, Present & Future
3. Social Stratification
4. Economic Organisation
5. Religion & Society

Selection Examination :

1. Social Institution
2. Social Change & Development

POLITICAL SCIENCE

Pre Selection Examination :

1. Forms of Government – Totalitarian, Authoritarian and Liberal Democratic States
2. Constitution of India – Preamble
3. Indian Constitution – Salient Features
4. Forms of Government : Unitary & Federal States, Parliamentary & Presidential States.
5. Meaning and Kinds of Constitution
6. Fundamental Rights
7. Directive Principles of State Policy

Selection Examination :

1. Franchise and Representation
2. Local Self Govt
3. Democracy in India
4. Organs of Government –
Legislature [India and USA]
Executive [India and USA]
Judiciary [India and USA]

Note : Full Book[All Chapters]

ACCOUNTS

Pre Selection Examination :

1. Partnership :
 - a) Fundamentals
 - b) Goodwill – Methods of Valuation and Treatment

- c) Admission
 - d) Retirement
 - e) Death of a Partner
 - f) Dissolution
2. Company Accounts :
 - a) Issue, Forfeiture and Re-issue of Forfeited Shares
 - b) Debenture – Issue and Redemption of Debentures

Selection Examination :

1. Entire Syllabus of Pre-Selection
2. Final Accounts of Companies
3. Comparative Financial Statements
4. Ratio-Analysis
5. Cash Flow Statement

COMMERCE

Pre Selection Examination :

1. Business Environment, Including S.W.O.T Analysis
2. Financing, Including Banking Latest Trends
3. Management

Selection Examination :

1. Marketing, Including Consumer Protection Act
2. Full Syllabus of Pre-Selection Examination

BUSINESS STUDIES

Pre Selection Examination :

1. Human Resource Management
 - Manpower Planning
 - Staff Recruitment
 - Staff Selection

- Staff Training
 - Staff Morale
 - Staff Motivation
 - Staff Remuneration
 - Staff Leadership
 - Staff Appraisal
 - Staff Promotion and Transfer
 - Staff Separation
 - Emerging Trends in Human Resources
2. Business Size and Finance :
 - Various Business Entities
 - Sources of Business Finance
 3. Globalisation and Recent Trends in Business
 - Globalisation
 - E-Business
 - Outsourcing
 - On-line means of Business

Selection Examination :

1. Business Communication and Correspondence
 - Business Communication
 - Business Letters
 - Reports
 - Current Trends in Business Communication
2. Business Regulators and Intermediaries :
 - Roles of Regulators and Intermediaries [Viz, RBI, NBFC, SEBI, IRDAI, PFRDA, FSSAI, ISI].
3. Full Syllabus of Pre Selection Examination

ECONOMICS

Pre Selection Examination :Micro Economic Analysis :

1. Demand – Concepts, Law of Diminishing MU, Cardinal and Ordinal Utility, Elasticity of Demand.
2. Supply – Concepts – Elasticity of Supply
3. Market Mechanism – Equilibrium Price, Effects of Changes in Demand and Supply on Equilibrium Price & Quantity.
4. Concept of Production and Production Function
5. Cost & Revenue
6. Producer's Equilibrium
7. Main Market Forms

Macro-Economic Analysis :

8. Theory of Income and Employment
9. Money and Banking
10. Balance of Payment and Exchange Rate

Selection Examination :

1. Full Syllabus of Pre Selection
2. Public Finance
3. National Income

COMPUTER SCIENCE

Pre Selection Examination :

- Class XI Syllabus
- Minimization of Boolean Expression
- K-Map
- Address Calculation for 2D Array [Column Major & Row Major]
- Proposition Logic

- Encoder, Decoder & Multiplexer
- 2D-Array
- Programming Using Objects & Passing of Objects Through Functions.
- Infix to Postfix
- Postfix Evaluation
- Inheritance
- Half Adder & Full Adder
- Searching – Linear & Binary Search
- Sorting – Bubble, Selection & Insertion Sort
- Merging of Two Array in Sorted Order
- Quick Sort
- DE Queue
- Recursion

Selection Examination :

- Pre Selection Syllabus
- Binary Tree
- Tree Traversal
- Binary Search Tree [BST]
- File Handling
- Exception Handling
- Complexity Analysis & Big O Notation