



## Syllabus For MAHA-E-IT

### Section I - General Intelligence & Reasoning

1. Problem Solving.
2. Arithmetical Reasoning.
3. Syllogistic Reasoning.
4. Visual Memory.
5. Arrangements.
6. Non-Verbal Series.
7. Judgment.
8. Mirror Images.
9. Directions.
10. Cubes and Dice.
11. Alphabet Series.
12. Decision Making.
13. Embedded Figures etc.
14. Blood Relations.
15. Clocks & Calendars.
16. Number Ranking.
17. Coding-Decoding.
18. Number Series.
19. Analogies
20. Completion of Number and Alphabetical Series
21. Coding and Decoding
22. Mathematical Operations
23. Similarities and Differences
24. Relationships
25. Analytical Reasoning
26. Syllogism
27. Jumbling
28. Venn Diagrams
29. Puzzle





30. Data Sufficiency
31. Statement- Conclusion
32. Statement- Courses of Action
33. Decision Making
34. Maps
35. Interpretation of Graphs, etc.

## **Section II - General Awareness**

1. Current Events of National and International Importance
2. Games and Sports
3. Art and Culture of India
4. Indian Literature
5. Monuments and Places of India
6. General Science and Life Science (up to 10th CBSE)
7. History of India and Freedom Struggle
8. Physical
9. Social and Economic Geography of India and World
10. Indian Polity and Governance- constitution and political system
11. General Scientific and Technological Developments including Space and Nuclear Program of India
12. UN and Other important World Organizations
13. Environmental Issues Concerning India and World at Large
14. Basics of Computers and Computer Applications
15. Common Abbreviations
16. Transport Systems in India
17. Indian Economy
18. Famous Personalities of India and World
19. Flagship Government Programs
20. Flora and Fauna of India
21. Important Government and Public Sector Organizations of India etc.





## Section III - English Comprehension

### 1. Vocabulary

- a. Synonyms & Antonyms
- b. Fill in the blanks
- c. Cloze Test
- d. Spelling Test
- e. Idioms and Phrases
- f. One-word substitution
- g. Sentence or Phrase Improvement

### 2. Grammar

- a. Sentence correction/ Spotting the error
- b. Fill in the blanks
- c. Sentence or Phrase Improvement
- d. Active-Passive Voice
- e. Direct-Indirect Speech

### 3. Comprehension

- a. Reading Comprehension

### 4. Sentence Rearrangement

- a. Para jumbles
- b. Jumbled Sentence





## Section IV - Quantitative Aptitude

### 1. Arithmetic

- a. Chapters, Number System
- b. Fractions and Decimals
- c. Square roots, Percentage
- d. Profit, Loss and Discount
- e. Ratio & Proportion
- f. Average
- g. Partnership Business
- h. Time and Distance
- i. Time and Work
- j. Pipes and Cisterns
- k. Mixture and Allegation
- l. Simple Interest & Compound Interest
- m. Probability, Permutation and Combination

### 2. Algebra

- a. Basic algebraic identities of School Algebra & Elementary surds
- b. Graphs of Linear Equations

### 3. Geometry

- a. Quadrilaterals
- b. Triangle and its various kinds of centers
- c. Congruence and similarity of triangles
- d. Regular Polygon
- e. Right Prism & Hemispheres
- f. Circle and its chords, tangents
- g. Angles subtended by chords of a circle
- h. Common tangents to two or more circles
- i. Right Circular Cone
- j. Sphere, Cylinder
- k. Right Circular Cylinder
- l. Regular Right Pyramid with Triangular base or Square base
- m. Rectangular Parallelepiped





#### 4. Mensuration

- a. Two-dimensional (2D) and Three-dimensional (3D) Mensuration

#### 5. Trigonometry

- a. Degree and Radian Measures
- b. Trigonometric Ratios
- c. Complementary Angles
- d. Standard Identities
- e. Height and Distance

#### 6. Data Interpretation

- a. Frequency Polygon
- b. Histogram
- c. Pie-Chart
- d. Bar Diagram

### **Section V - General Studies (Core Information Technology)**

1. Digital Logic
2. Computer Programming:
3. processor and Comments
4. Object Oriented Techniques
5. Data Structures and Algorithms
6. Database Management Systems
7. System Analysis
8. Design and Analysis of Algorithms
9. Information Management System DBMS
10. Operating Systems
11. Computer Architecture and Organization
12. Computer Networks
13. Software Engineering
14. Internet Web Programming





## **Section VI - General Studies (Finance)**

### **1. Financial Accounting**

- a. Nature and scope
- b. Limitations of Financial Accounting
- c. Basic concepts and Conventions
- d. Generally Accepted Accounting Principles

### **2. Basic concepts of accounting**

- a. Single and double entry
- b. Books of original Entry
- c. Bank Reconciliation
- d. Journal
- e. Ledgers
- f. Trial Balance
- g. Rectification of Errors
- h. Manufacturing, Trading, Profit & loss Appropriation Accounts
- i. Balance Sheet
- j. Distinction between Capital and Revenue Expenditure
- k. Depreciation Accounting
- l. Valuation of Inventories
- m. Non-profit organizations Accounts
- n. Receipts and Payments and Income & Expenditure Accounts
- o. Bills of Exchange
- p. Self-Balancing Ledgers





## **Section VII - General Studies (Economics)**

- 1. Comptroller & Auditor General of India**
  - a. Constitutional provisions
  - b. Role and responsibility
- 2. Finance Commission**
  - a. Role and functions
- 3. Basic Concept of Economics and introduction to Micro Economics**
  - a. Definition
  - b. scope and nature of Economics
  - c. Methods of economic study
  - d. Central problems of an economy
  - e. Production possibilities curve
- 4. Theory of Demand and Supply**
  - a. Meaning and determinants of demand
  - b. Law of demand and Elasticity of demand
  - c. Price, income and cross elasticity
  - d. Theory of consumer's behavior-Marshallian approach and Indifference curve approach
  - e. Meaning and determinants of supply
  - f. Law of supply and Elasticity of Supply.
- 5. Theory of Production and cost**
  - a. Meaning and Factors of production
  - b. Laws of production- Law of variable proportions and Laws of returns to scale.
- 6. Forms of Market and price determination in different markets**
  - a. Various forms of markets-Perfect Competition, Monopoly
  - b. Monopolistic Competition and Oligopoly and Price determination in these markets





## 7. Indian Economy

- a. Nature of the Indian Economy
- b. Role of different sectors-Role of Agriculture, Industry and Services-their problems and growth
- c. National Income of India-Concepts of national income, Different methods of measuring national income
- d. Population-Its size, rate of growth and its implication on economic growth
- e. Poverty and unemployment- Absolute and relative poverty, types, causes and incidence of unemployment Infrastructure-Energy, Transportation, Communication

## 8. Economic Reforms in India

- a. Economic reforms since 1991
- b. Liberalizations
- c. Privatization
- d. Globalization
- e. Disinvestment

## 9. Money and Banking:

- a. Monetary/Fiscal policy- Role and functions of Reserve Bank of India; Functions of commercial Banks/RRB/Payment Banks Budget and Fiscal deficits and Balance of payments Fiscal Responsibility and Budget Management Act, 2003

