

**Syllabus for the online test**  
**(Please note that the syllabus is only indicative and not exhaustive)**

**Regional Officer Grade – “A”**

	<b>Questions (carrying 2 marks each)</b>
Part 1 General knowledge, aptitude test and English language comprehensive skills	<b>15</b>
Part 2 Basic skills in Science and Engineering	<b>15</b>
Part 3 Environmental legislation, Air, Water and Waste Management, like Treatment, General issues in Environment	<b>50</b>

**Part 1**

**A General knowledge**

- 1 . Current events of national and international importance
- 2 . Indian and world geography
- 3 . Indian polity and Governance- Constitution and political system

**B Basic General Aptitude Topics**

**1. Verbal ability**

- a. Sentence Improvement
- b. Reading comprehension
- c. Fill in the blanks.
- d. Sentence Rearrangements
- e. Vocal
- f. Synonyms

**2. Quantitative Aptitude**

- a. Number system
- b. Profit and loss
- c. Time and Work distance
- d. Average
- e. Percentage

**3. Logical Reasoning**

- a. Blood Relations
- b. Direction sense test
- c. Data sequence
- d. Series

**C English language comprehensive skills- Class 12<sup>th</sup> level**

**Part 2**

**Basic skills in Science and Engineering**

**A Mathematics – 12<sup>th</sup> class level**

- 1 .Probability- Definition of probability and sampling theorems, conditional probability.
- 2 .Statistics- mean, median, mode and standard deviation, normal distributions
- 3 .Common functions, algebraic equations and their graphical representation.
- 4 .Surface area and volumes

5. Graphical representation and interpretation of data.

## **B Chemistry- 12<sup>th</sup> class level**

- 1 . Basic chemistry
- 2 . Gas Laws
- 3 . Electro Chemistry
- 4 . fuels and combustion
- 5 . Metallurgical Operations

## **Part 3**

Environmental Legislation, Air, Water and Waste management, General issues in Environment

### **A Environmental Legislation**

1. Provisions of Water (prevention & control of pollution) Act, 1974.
2. Provisions of Air (Prevention & control of pollution) Act, 1981.
3. Provisions of Environmental (Protection) Act, 1986.
4. Provisions of National Green Tribunal Act, 2010.

### **B Air, Water and Waste Management**

- 1 Air Pollution-
  - . Natural and anthropogenic sources of air pollution.
  - . Primary and secondary pollutants.
  - . Design and technical aspects of air pollution control systems/units their operation.
- 2 Water Pollution-
  - .Sources of water pollutions and its characteristics.
  - . Design and technical aspects for the waste water treatments.
  - . Disposal methods of waste water treatments.
  - . Disposal methods of waste water.
- 3 Waste management-
  - . Municipal solid waste management.
  - . Bio medical waste management.
  - . E-waste management.
  - .Plastic waste, C & D waste.

### **C General Issues in Environment**

- 1 Climate change
- 2 International treaties and protocols related to Environment.
- 3 Green Buildings and energy efficiency.
- 4 Renewable energy
- 5 Eco-secsitive area.
- 6 Reduce, recycle and zero Discharge concept.

**Post: Senior Scientific Officer/ Scientific Officer – Grade – ‘A’**

Sr.No.	Subject	Questions
1. Part - I	General Knowledge, aptitude test and English Language	60 (1 mark each)
2. Part – II	<p align="center">I. Water/ Air / HW Biological parameter Analysis / Data compilation / Data Review / Administration.</p> <p align="center"><b>(Part- I)</b></p> <p align="center"><b><u>General Knowledge</u></b></p> <p>A)</p> <p>I. Current events of Maharashtra State National &amp; International Importance.</p> <p>II. Indian &amp; world geography / History</p> <p>III. Indian Policy &amp; governance constitution &amp; political system</p> <p>B)</p> <p align="center"><b><u>Aptitude Test</u></b></p> <p>I. Logical reasoning &amp; analytical ability</p> <p>II. Problem resolving.</p> <p align="center"><b>(Part- II)</b></p> <p><b>Basic Skill in Analysis / compilation / Review / Laboratory Administration</b></p> <p>I. Analytical method – Water / Air / HW / MSW / BMW :- Definition →Principal → Regents → Reaction → calculation →output →Unit</p> <p>II. Data compilation and Review</p> <p>III. Certification →MoEF &amp; CC / NABL / ISO/ OHSAS etc.</p> <p>IV. Administration / Accounting Purchase e -Tender / Quotation / GEM</p> <p>V. Environment Impact Factors: -</p> <p>I. Climate Change</p> <p>II. Basic NGT / MoEf &amp; CC – Notification / Guidelines / Rules</p> <p>III. Green Energy / Renewable Energy / Eco sensitive area.</p> <p>IV. Basic Knowledge Bio- Medical Waste Management</p> <p>V. Municipal Solid waste Management</p> <p>VI.Environmental Legislation</p> <p>III. General Analytical methods (BIS) for analysis of Air/ Water/ HW / BMW / MSW</p> <p>IV. MoEF &amp; CC / CPCB- Guidelines / Rules</p> <p>V. Laboratory related certification.</p>	50 (2 marks each)

**Post : Junior Scientific Officer – Grade- ‘B’/Junior Scientific Assistant - Grade – ‘C**

Sr.No.	Subject	Questions
1. Part - I	General Knowledge, aptitude test and English Language	40 (2 marks each)
2. Part – II	<p align="center">II. Water/ Air / HW Biological parameter Analysis / Data compilation <b>(Part- I)</b></p> <p align="center"><b><u>General Knowledge</u></b></p> <p>A)</p> <p>I. Current events of Maharashtra State National &amp; International Importer.</p> <p>II. Indian &amp; world geography / History</p> <p>III. Indian Policy &amp; governance constitution &amp; political system</p> <p>B)</p> <p align="center"><b><u>Aptitude Test</u></b></p> <p>I. Logical reasoning &amp; analytical ability</p> <p>II. Problem resolving.</p> <p align="center"><b>(Part- II)</b></p> <p align="center"><b>Basic Skill in Analysis / compilations</b></p> <p>I. Analytical method – Water / Air / HW / MSW / BMW :- Definition →Principal → Regents → Reaction → calculation →output →Unit</p> <p>II. Data compilation</p> <p>III. Certification →MoEF &amp; CC / NABL / ISO/ OHSAS etc.</p> <p>IV. Environment Impact Factors: -</p> <p>i. Climate Change</p> <p>ii. Basic - NGT / MoEf &amp; CC – Notification / Guidelines / Rules</p> <p>iii. Basic Knowledge Bio- Medical Waste Management</p> <p>III. General Analytical methods (BIS) for analysis of Air/ Water/ HW / BMW / MSW</p> <p>IV. MoEF &amp; CC / CPCB- Guidelines / Rules</p> <p>V. Laboratory related certification.</p>	60 (2 marks each)

**Post applied for Head Accountant/ Sr Clerk/ Jr. Clerk- Typist**

**Grade “C”**

	<b>Subject</b>	<b>Questions</b>
Part - I	General Knowledge, aptitude test and English language comprehensive skills	40 (2 marks each)
Part – II	Book-Keeping, Accounting and General Administration post related topics	60 (2 marks each)

**Part – I**

**A      General Knowledge**

- i. Current affairs of state, national and international.
- ii. Indian and World Geography/ History
- iii. Indian Policy and Governance Constitution and Political System.
- iv. Knowledge of Current events.

**B      Aptitude test**

- i. Logical reasoning and analytical ability
- ii. Problem solving ability.
- iii. General intelligence ability.

**Part – II**

- A,      Knowledge of Budget.
- B.      General Accounting and Final Accounts, post related topics
- C.      Knowledge General Administration (Maharashtra Civil Service Rules)
- D.      Computer Knowledge: (MS-Office), (Tally), Account processing .

**Post applied for Legal Assistant**

**Grade "C"**

	<b>Subject</b>	<b>Questions</b>
Part - I	General Knowledge, aptitude test and English language comprehensive skills	40 (carrying 2 marks each)
Part – II	Environmental Legislations & Other Laws	60 (carrying 2 marks each)

Part – I

**A      General Knowledge**

- i. Current affairs of nation and international importance
- ii. Indian and World Geography
- iii. Indian Policy and Governance Constitution and Political System

**B      Aptitude test**

- i. Logical reasoning and analytical ability
- ii. Problem solving
- iii. General intelligence ability.

**Part – II**

- A. Environmental legislation.
- B. Administrative Law
- C. Civil procedure Code/ Criminal procedure Code/ Constitution of India
- D. Computer Knowledge.
- E. National Green Tribunal

**Post applied for Jr. Steno**

**Grade "C"**

	<b>Subject</b>	<b>Questions</b>
Part - I	General Knowledge, aptitude test and English language comprehensive skills	40 (2 marks each)
Part – II	Typing and short hand skill, Computer Processing , General Accounting and Administration	40 (2 marks each)

**Part – I**

**A General Knowledge**

- i. Current affairs of state, national and international.
- ii. Indian and World Geography/ History
- iii. Indian Policy and Governance Constitution and Political System.
- iv. Knowledge of Current events.

**B Aptitude test**

- i. Logical reasoning and analytical ability
- ii. Problem solving ability.
- iii. General intelligence ability.

**Part – II**

- A. Knowledge of general accounting and Administration.
- B. General awareness of computer operating and presentation, post related topics
- C. Knowledge General Administration (Maharashtra Civil Service Rules)

**Post Applied For Lab Assistant - Grade 'C'**

Sr.No.	Subject	Questions
1. Part - I	General Knowledge, aptitude test and English Language	40 (2 Marks each)
2. Part – II	<p align="center">Water/ Air / HW Biological parameter Analysis</p> <p align="center"><b>(Part- I)</b></p> <p align="center"><b><u>General Knowledge</u></b></p> <p>I. Current events of Maharashtra State National &amp; International Importer.</p> <p>II. Indian &amp; world geography / History</p> <p>III. Indian Policy &amp; governance constitution &amp; political system</p> <p align="center"><b><u>Aptitude Test</u></b></p> <p>I. Logical reasoning &amp; analytical ability</p> <p>II. Problem resolving.</p> <p align="center"><b>(Part- II)</b></p> <p align="center">Basic Skill in Analysis Analytical method – Water / Air / HW / MSW / BMW -Reagen Preparation / Glassware washing / Media preparation.</p> <p align="center">General Analytical methods (BIS) for analysis of Air/ Water/ HW / BMW / MSW</p>	60 (2 Marks each)

**For all posts:**

Penalty for Wrong Answers	No
Number of Answer choices per question	5 Options