

SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)
FOR THE POST OF ASSISTANT DIRECTOR IN
DEPARTMENT OF SCIENCE AND TECHNOLOGY AND WASTE MANAGEMENT
(ADVT. NO. 04 YEAR 2024)

I. General English including Grammar - 10 marks

II. General Knowledge, Current Affairs and Events of National and International Importance - 10 marks

III. Logical Reasoning and Analytical Ability - 25 marks

IV. Core: - 30 marks

1. Engineering Fundamentals

- **Civil Engineering:**
 - Basics of Structural Engineering
 - Environmental Engineering concepts
- **Mechanical Engineering:**
 - Thermodynamics and Fluid Mechanics
 - Material Science and Engineering

2. Science and Technology

- **Current Trends in Science and Technology:**
 - Innovations in engineering practices
 - Emerging technologies (e.g., AI, IoT, renewable energy)
- **Research and Development:**
 - Importance of R&D in technology advancement
 - Case studies of successful innovations
 - Fundamentals of project planning and execution
 - Recent advancements in Goa state and Maharashtra state
- **Planning and Organization:**
 - Steps for organizing fairs, exhibitions, and symposiums
 - Budgeting and resource allocation
- **Proposal Evaluation:**
 - Criteria for assessing proposals
 - Best practices in proposal scrutiny

3. Waste Management

- **Principles of Waste Management:**
 - Waste generation, segregation, and treatment
 - Techniques for waste recycling and waste reduction
- **Regulatory Framework:**
 - National and state-level waste management policies
 - Environmental regulations and compliance
- **Environmental Issues:**
 - Climate change, and its impact on waste management.
 - sustainable development and effects on waste management

4. Communication and writing Skills :

- Report writing and documentation
- Presentation skills for technical topics

Note:

Duration for C.B.R.T : 90 Minutes

Maximum Marks for C.B.R.T : 75 Marks