

**SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)**  
**FOR THE POST OF LECTURER IN ARCHITECTURAL ASSISTANTSHIP UNDER**  
**GOVERNEMENT POLYTECHNIC**  
**(Advt No. 05 Year 2024)**

**I. General English including Grammar - 05 marks**

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

**III. Logical Reasoning and Analytical Ability - 10 marks**

**IV. Core: - 50 marks**

**ENGINEERING MECHANICS**

Simple Stresses and Strain – Stress and Strain – Moduli of Elasticity / Elastic constants – Application of stress and strain in engineering field – Behaviour of ductile and brittle material – Loads – Shear Force and Bending Moment – Geometrical properties of sections – Centroid – Moment of Inertia – Stress in Beams and Shafts – Stresses in Beams due to bending – Stress in shafts due to torsion

**BUILDING MATERIALS**

Soil – Stone – Clay Products – Lime – Cement – Timber – Concrete – Ferrous and Non-Ferrous Metals – Glass – Plastics – Gypsum – Insulation Materials – Asphalt, Sealants & Adhesives – Protective and Decorative Coatings – Water Proofing and Damp Proofing Materials – Rural Building Materials.

**HISTORY OF ARCHITECTURE**

Beginning of Indian Architecture – Early Christian Architecture -Hindu Architecture – Indo-Islamic Architecture – Contemporary World Architecture.

**SURVEY THEORY**

Chain Surveying – Compass Surveying – Plane Table Surveying – Levelling – Theodolite – Contouring – Minor Instruments.

**BUILDING SERVICES**

Electrical Services – Wiring System – Lighting – Renewable Energy Sources – Mechanical Services – Fire Hazards, Safety & Design Regulations – Air Conditioning – Ventilation – Acoustics – Intelligent Architecture.

**QUANTITY SURVEYING AND COSTING**

Stages of Detailed Estimate – Measurements & Material Requirement – Specification & Report Writing – Approximate Estimates – Areas and Volumes – Data – Valuation – Detailed Estimate.

## **TOWN PLANNING**

Town Planning Principles – Road and Street Planning – Housing – Economy, Society, Environment and Transport Policy and Planning – Town Planning Rules, Building Bye-Laws & Development Control Rules.

## **COMPUTER APPLICATION IN ARCHITECTURAL**

Study of operating System – Using Windows – Using AutoCAD / 3D MAX / Civil Architect / 3D HOME / Architectural Design Desktop Software Packages – Setting limits and creating entities like LINE, ARC, CIRCLE etc – Editing the drawing with edit commands like TRIM, FILLET, COPY, MOVE

**Note:**

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

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

Uploaded by GPSC on 16/08/2024