

## PPSC Syllabus 2022 (Head Draftsmen, Draftsmen)

### PPSC Exam Pattern 2022

Name of the Subjects	Number of Questions	Number of Marks
Part A: Concerned Subjects	100	400
Part B: <ul style="list-style-type: none"> <li>● General knowledge</li> <li>● Logical Reasoning</li> <li>● Mental Ability</li> </ul>	20	80
<b>Total</b>	<b>120 Questions</b>	<b>480 Marks</b>
<b>Time Duration: 2 Hours</b>		
<b>Multiple Choice Objective Questions</b>		

### PPSC Syllabus 2022 - (Subject Wise)

#### Concerned Subjects

- Importance of B.I.S., Introduction of Code for Practice of Architectural and Building Drawings (IS: 962- 1989), Layout of drawing. Lines, Lettering, Dimensioning. Knowledge of different types of Scales and Principle of R.F., Different types of projection views such as Orthographic, Isometric, Oblique and Perspective.
- Building Materials- Stones –classification, types, uses. Bricks – Manufacturing, characteristics, types, uses. Lime– characteristics, types, uses. Pozzolanic- classification, types, uses. Cement – Manufacturing, classification, types, uses and test of good cement. Sand – characteristics, types & uses. Clay Products – types, earthenware, stoneware, porcelain, terracotta, glazing. Mortar & Concrete –Types, uses Preparation, Proportion and mixtures and applications. Timber–types, Structure, disease & defects, characteristics, seasoning. Preservation and uses.
- Alternative materials of Timber- Plywood, Block Board, Particle Board, Fireproof reinforced plastic, (FRP). Medium density fireboard (MDF) etc.
- Protective materials- Tar, bitumen, asphalt- Properties, application and uses  
Paints–characteristics, types, uses. Varnishes– characteristics, types, uses. Metal– characteristics, types, uses. Plastics –characteristics, types, use.

- Building Construction:- Sequence of construction of a building. Name of building.
- Stone masonry- Terms used and Classification. Principle of construction, Composite masonry. Strength of walls. Strength of Masonry.
- Brick masonry – Principle of construction of Bonds, Tools and Equipment used.
- Foundation-Purpose of Foundation, Causes of failure of Foundation, Types of Foundations, Drawing of footing, foundation, Setting out of building on ground excavation, Types of Shoring and Scaffolding details, Types of Underpinning and Timbering details. DPC. Arches. Lintels. Mortar. R.C.C. Reinforcement. Doors & windows. Roofs. Floors. Trusses. Carpentry Joints. Stairs.
- Surveying-Introduction, History and Principal of chain surveying. Instruments Employed. Main divisions (plain & geodetic).Chain Surveying. Compass Surveying. Plane Table Surveying. Leveling. Theodolite. Total Station
- Computer aided drafting (CAD) -Operating system software & their use. Introduction of CAD. Basic commands of CAD
- Planning of Building-Principles of Planning& orientation of Building. Local Building Bye Laws
- Estimating & Costing- Methods of finding Quantities of materials.
- Roads and Railways- Principles of Planning & construction of Roads. Indian Railways & their Gauges
- Bridges-Culverts& Bridges.
- Irrigation & hydrology – Methods. Terms used in Irrigation. Storage & Reservoirs. Canals. Hydroelectric power house.
- Public Health Engineering- Public health system of Sanitation. Sanitary Fittings etc

### Part-B

- Economic issues.
- Polity issues.
- Environment issues
- Science and Technology.
- Any other current issues.
- (a) History of India with special reference to Indian freedom struggle movement.
- (b) History of Punjab- 14th century onwards

### General Mental Ability, Logical Reasoning and Quantitative Aptitude

- Analytical Reasoning, Logical Reasoning, and Mental Ability
- Basic numerical skills, numbers, magnitudes, percentage, numerical relation appreciation.
- Data analysis, Graphic presentation charts, tables, spreadsheets