

SYLLABUS FOR THE POST OF DRAFTSMAN(CIVIL)

Section-A

70 Marks

Domain Knowledge

Engineer Drawing: Drawing instruments, lettering, lines and conventional signs of materials, dimensioning sketching, geometrical drawing, scales, Projection –Isometric projection, oblique projection, perspective views

2. Building Material: Bricks, Stone, Lime, Cement, Timber, Sand, Surkhi and Cinder

3. Building Construction: Brick masonry and various types of bonds, stone masonry , foundation , floor , lintels, and arches, carpentry and various types of joints, door, windows and ventilation, roofs, stairs, residential building and its planning, damp proofing course, pointing, white and colour washing, Drawing tracing, printing.

4. Allied Trade: Electrical wiring, Carpentry, Plumbing.

5. Surveying: Chain surveying, Plane Table Surveying, Levelling and various surveying instruments.

6. Water Resources Engineering Hydrology, water distribution works, cross drainage works, diversion storage Head Works.

7. Reinforced Cement Concrete and Steel Structures:

Reinforcement cement concrete- selection of material, formwork extra beams and girders, rivets and type of joints, nuts and bolts, steel structures section.

8. Estimating and Costing: Units of measurement, main items of building, types of estimate, method of detailed building estimate, rate analysis, building specifications.

9. Basic Computer Applications and Autocad:

Basic computer applications: Autocad (2D and 3D) -Interface, drawing commands, drafting settings, editing commands, inquiry tools, layer and objects properties, creating and editing text, annotation scale, dimensioning, hatch objects, block and symbol library, plot and drawing, managing project extra. Water CAD- building models, scenario management, calibrating models, using models for solving design and operation problems, sizing tanks and selecting pumps, optimal design. ARC Info- GIS map basics, feature-attribute relationship and its benefit, creating a map layout, coordinates to find places, measurements on maps, managing map layers, symbolizing categorical data and quantitative data, styles, labels, annotation, map templates, join and related tables.

Section-B**30 Marks**

- Unit A General Knowledge – Current events, sports, history, geography, basic economics, general politics, Indian Constitution, Science environment, General awareness of Haryana etc
- Unit B Questions on Mathematics of matriculation standard- Number system, simplification, decimals, corrections, simple and compound interest, percentage, average, profit and loss, discount, mensuration, Time & work and time & distance etc.
- Unit C English, covering Grammar- Prepositions, adverbs, conjunction, direct/indirect speech, singular & plural, tenses, antonyms/synonyms etc
- Unit D Questions on Reasoning
- Unit E Questions on analytical Ability