

NATIONAL REMOTE SENSING CENTRE
ADVERTISEMENT NO.NRSC/RMT/3/2017 DATED 20.05.2017
Name of the Post : Draughtsman-B (Civil) - (Draughtsman – Civil Trade)
Post Code : DM 1

SYLLABUS – WRITTEN TEST

Type of Examination	:	Objective Type (Multiple Choice Questions)
No. of Questions	:	80 Questions
Apportionment of marks	:	Each Question carries one mark.
Duration of Examination	:	02 Hours

Qualification Requirement : ITI/NTC/NAC in Draughtsman – Civil Trade.
(Examination will broadly comprise of below mentioned topics as covered in ITI/NTC/NAC in Draughtsman – Civil Trade.)

1. Introduction of BIS Code of Practice for Architectural & building drawings
2. Building bye-laws
3. Planning of Public Building.
4. Principles of planning of residential building, Building Materials
5. Permanent & Temporary structures
6. Floors & Floorings, Doors, Windows, ventilators. Arches & Lintels, Stairs, Roofs, Plumbing
7. Treatments for buildings
8. Plain cement concrete, RCC and its proportion, grades of coarse aggregate and fine aggregate. Knowledge OF concrete with cement mortar and lime mortar. Knowledge of waterproofing compound. Masonry structures, Soil & Foundations
9. Steel structures, Prefabricated structures , Reinforced cement concrete
10. Fundamental of computers & Introduction of CAD
11. Water resources: surface and sub-surface water, aquifers, yield from wells. Wastewater treatment: sewers, drainage.
12. Fundamentals of Roads, Railways ,Bridges
13. Surveying classification, leveling , chain surveying, theodolite surveying, surveying with total station
14. Total Station – application, components parts, accessories used, characteristics, features, Electronic display & Data reading , concepts of GPS survey
15. Remote sensing introduction, application in civil engineering, ideal remote sensing system
16. Working with other software to import to drawing -Concept of developing solid from sketch- Surface modeling concepts

Syllabus for Skill Test

1. Reading topography map, contours drawings
2. Operating & setting up level, Theodolite. Observation of readings and sighting the points
3. Field procedure for coordinate measurement field procedure to run a traverse survey-linking data files.
4. GPS-components, steps in mapping, comparison of GPS with GIS,CAD and other system-field applications
5. Preparation of detailed Estimate.

6. Preparing drawing system of sewerage- one pipe system, two pipe system, and single stack system
7. Drawing a details of construction of different types of roads
8. Drawing a details for rails and gauges
9. Drawing -types of bridges. Preparing 2D, 3D CAD drawings of various structures of Bridges.