

NATIONAL REMOTE SENSING CENTRE
ADVERTISEMENT NO.NRSC/RMT/3/2017 DATED 20.05.2017

Name of the Post : Technician – B (Plumber)

Post Code : TB 8

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 Plumber Trade.

(Examination will broadly comprise of below mentioned topics as covered in ITI/NTC/NAC in Plumber trade.)

Fitter's common hand tools - names, description and material from which they are made. Description, types and uses of holding device, hammers & cold chisels, cutting tools. Description of simple drilling machine. Method of using drills taps and dies. Description of simple bench drilling Machine. Description of different types of locking and fastening devices. Different types of pipes-GI,CI,PVC/CPVC,PPR,AC and HDPE etc. Marking instruments and their use.

Carpenter's hand tools: Description and uses of Carpenter's hand tools used for simple operations such as marking, sawing, planing and making simple joints. Description and their uses of **Masons hand tools**, Method of making holes in walls and floors. Types of tools used and various Concepts of bricks lime and cement. Preparation of mortars with various materials of varying composition, Method of construction of manhole etc.

Gas welding: Gas purpose, Method of gas welding, Safety precautions to be observed -Methods of soldering and · brazing –fluxes used & Types of fluxes, precautions to be observed. Hard & soft solders –their properties, composition and uses.

Plumber tools: Description of plumber tools and Equipments-ratchet, brace, threading die, pipe wrench, sliding wrench, spanner set, chain Wrench etc. and their safety. Plumbing Symbols. Identify plumbing services required for each type of building according to usage. Care & use of tools. Pipes different kinds. Pipe fitting –bends, elbows, sockets, tees, unions etc. , their description, specification and use. Types of fittings for different joints & different pipes. Description of pipe fittings. Methods of joining and their uses. Precautions to be taken while fixing.

Syllabus for Skill Test:

1. Tracing out leakages and repairing of water supply system.
2. Bending and shaping of different pipes
3. Practice on fixing of different water, gas and steam cocks and valves , practice on cutting threads (internal and external)
4. Measurement, preparation and fixing up of lead wastes from wash basin and bath. Measurement, cutting, preparation and fixing up of rising mains and distributing pipes
5. Erecting simple water supply system , Repairing of waste outlets
6. Preparing layout plan for showing the water line for village & town
7. Studying of building plan for marking the position of the sanitary fittings
8. Estimation of material for different plumbing and sewerage job. Determination of pipe length