

NATIONAL REMOTE SENSING CENTRE
ADVERTISEMENT NO.NRSC/RMT/3/2017 DATED 20.05.2017
Name of the Post : Technician – B (Refrigeration & Air -Conditioning)
Post Code : TB 9

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 Refrigeration & Air -Conditioning Trade.

(Examination will broadly comprise of below mentioned topics as covered in ITI/NTC/NAC in Refrigeration & Air –Conditioning Trade .)

1. Basics in Refrigeration – refrigeration cycle, basic components.
2. Fundamentals in electrical engineering
3. AC & DC motors including VFDs:
4. Different welding techniques
5. Types of refrigerators, air conditioners , Package units, Centralised industrial Air conditioning:
6. Direct expansion systems / In direct expansion AC systems.
7. Frost free refrigerators
8. Types of refrigerants/ Eco friendly refrigerants.
9. Automobile AC systems
10. Different parts of AC system: compressor, condenser, expansion valve and evaporator, ducts, cooling towers – Water treatment/de scaling measures.
11. Types of condensers – Water cooled and air cooled
12. Fundamentals of Water cooler/visible cooler & bottle cooler/deep freezer/ice cube machine/ice candy plant/ice cream plant and walk in cooler & reach in cabinet:
13. Cold storage type AC systems