

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

**Name of the Post: Technician – B (Electrician)**

**Post Code: TB 2**

**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 Electrician Trade**

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

1. Fundamentals of electricity
2. Ohm's Law, Kirchhoff's Laws
3. Chemical effect of electric current
4. Inverter, Battery Charger, UPS fundamentals
5. Electro magnetism
6. D.C. Machines
7. Insulating materials
8. Different types of Wiring systems (domestic and industrial), different types of earthing techniques
9. Alternating current fundamentals
10. Transformers
11. Generation, transmission and distribution of electricity
12. Synchronous motors
13. Induction motors
14. AC and DC Machine winding
15. Electrical measurements and Measuring Instruments
16. Illumination and lighting fundamentals
17. Protective devices – Fuse, Relays, MCBs, MCCBs, ELMCBs
18. Basic electronics, semi - conductors, Digital Electronics
19. Solving simple electrical problem, basic electrical formulae
20. Reading of circuit diagrams / single line diagrams / Block diagrams / Recording basic electrical parameters/ Identification of basic electrical symbols
21. Electrical safety - Causes for Electric Shock and protection
22. Fire Safety - types of fire prevention and fire extinguishing techniques