

NOTICE

Ref: TFR:NCB:298:24-25

Dated: 20th June 2024

Sub: Syllabus for the written examination and skill test for the post of Scientific Assistant 'B' (Instrumentation)

Ref: Advt No.18/2023: Appointment of a Scientific Assistant 'B' (Instrumentation) – Reserved for OBC category on permanent basis

In continuation of the Notice No. TFR:NCB:298:24-25 dated 19th June 2024 wherein the list of shortlisted candidates who have been found eligible for Written Examination and Skill Test, the syllabus for the said examination is being notified for information of all concerned:

Syllabus for Written Examination and Skill Test:

- Basic Electronics, Digital Electronics, Analog Electronics, Instrumentation Engineering, Basics of Telecom Networking/EPABX, Audio-Visual Systems, Access Control/Audio Video Conferencing.
- Biological Research Equipment: Basic Principles, Functions, and Applications of the following equipment - Centrifuge, FPLC/HPLC, Spectrophotometer, Gel Documentation System, ChemiDoc, PCR/RT PCR, Microscope.
- Basic Principles of Lasers, Incubators, Deep Freezers, and Measurement of Voltage, Current, Temperature, Pressure, Flow, Light Intensity, and Phase Velocity.
- Basics of Grounding, Shielding, Earthing, and Instrumentation Grounding.
- Basics of Sensors and Transducers: Resistive, Capacitive, Inductive, Piezoelectric, Hall Effect, Thermocouple, RTD, etc.
- Designing Projection and Sound Systems in Lectures, AV Cables and Protocols, Types of Projectors, etc.
- Principles and Designing of RFID-Based Access Control Systems.
- Basics of Telecom Networking and EPABX, PRI/BRI, etc., and Basic Electronics

The Date and Venue for the Written Examination and Skill Test will be intimated in due course. The pattern for written examination shall be objective type for 100 marks. There will be no negative markings for wrong answers. The skill test is qualifying in nature only i.e. either “qualified” or “not qualified”. The marks of the skill test will not be considered for preparing the final merit list.

The call letter with detailed instructions will be sent to the provisionally eligible candidates. Candidates are required to check their registered email frequently (including spam folder).

**Sd/-
Head, Administration and Finance
NCBS - TIFR**