



# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI – 620 015

## INSTRUCTIONS TO THE CANDIDATES FOR WRITTEN TEST

**Ref: Advt. No.: NITT/R/RC/NT/2019-02/01 dated: 27.08.2019**

With reference to the above advertisement, applications were invited for the post of Scientific/Technical Officer (for Computer Support Group & Sophisticated Instrument Facility). As per the General Instructions/Intimation mentioned in the advertisement, candidate has to appear for the written test to be held on 10.12.2019 from 09.00 A.M to 10.30 A.M for Technical Officer (Computer Support Group), from 11.00 A.M to 12.30 P.M for Technical Officer (Sophisticated Instrumentation Facility) at CSE 301, II Floor, Computer Science Department, National Institute of Technology – Tiruchirappalli.

### **The syllabus for the Written Test is given below:**

#### **For Technical Officer (Computer Support Group):**

- Hardware
- System Administration
- Email
- Web
- Networking
- Software and
- Programming Skills

#### **For Technical Officer (Sophisticated Instrumentation Facility):**

Reasoning - Basic Mathematics, Basic Physics - Basics of Circuits and Measurement Systems – error analysis. General lab instruments: Physical balance, centrifuge, autoclave, furnace, pelletizer, Basics of Analytical Instrumentation: X-ray diffractometer, Spectrometers, Atomic/electron/Fluorescent Microscopes, Particle sizers. Principles and basic components of analytical instruments - sample preparation methods: solution/dispersion/pellet preparation, basic thin film deposition methods – Safety measures related to laser, electricity, chemical handling - Result reporting

Principles instrumentation and applications of Electronic, vibrational, mass and magnetic resonance spectroscopic techniques

Materials classification, Crystal structure and imperfections, Synthesis and Processing of materials structure - Property correlations, Applications. Materials Testing, Inspection and Characterization: Destructive (Tensile, Hardness, fatigue, etc) and non-destructive methods (Ultrasonic Testing, Radiography, etc), Materials Characterization Techniques: Principle and application.

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## **General Instructions:**

### **Written Test:**

- i. The candidates are instructed to report for the written test 15 minutes before the commencement of the test.
- ii. Call Letter for the written test has already been sent to the candidates to their registered email/postal address by speed post. Candidates should bring the call letter with valid ID Proof in Original (Voters ID/Driving License/Aadhaar card).
- iii. The written test, consists of multiple choice questions, will be conducted for a duration of 90 minutes.
- iv. Separate written test will be conducted for the Technical Officer (Computer Support Group) and Technical officer (Sophisticated Instrumentation Facility). **The candidates can appear for either one OR both of the written tests.**
- v. Based on the performance in the written test/tests, the list of provisionally shortlisted candidates for the certificate verification and Interview will be displayed in the Notice board at venue of the written test and Institute's notice board (Near to Office of Dean Students Welfare) on 4.00 PM, 10.12.2019.
- vi. The provisionally shortlisted candidates have to appear for certificate verification along with all documents in original and a set of self-attested photocopies (Details are given in the call letter) on 8.30 AM, 11.12.2019 at Senate Room, Administrative Block, National Institute of Technology, Tiruchirappalli.
- vii. The Institute follows the reservation as per GoI norms.
- viii. The decision of the Institute in this regard is final

**Recruitment Cell**