



IITPKD/R/NF/03/2024/07

09th Jan 2025

Recruitment for the post of Junior Technician - CIF (Post Code: 24302) vide Advt. No.: IITPKD/R/NF/03/2024 dated August 30, 2024.

The selection process, indicative syllabus and date of examination for the post of Junior Technician - CIF advertised vide Advt. No.: IITPKD/R/NF/03/2024 dated August 30, 2024.

Junior Technician - CIF (Post Code : 24302)

The selection process shall be as below:

Syllabus:

Subject		Duration
Level I Objective (screening test)	<p><u>Part I : Chemistry</u></p> <ul style="list-style-type: none"> ● Types of solutions, expression of concentration of solutions of solids in liquids. pH of aqueous solutions, acid, base. ● Chemical kinetics, rate of chemical reactions, its dependence on temperature ● Boyle's law, Charles's law, ideal gas law ● Chemical bonding ● Aromaticity ● Aldehydes, ketones, carboxylic acids, amines, diazonium salts, alcohols, phenols, and ethers ● Functional group conversion ● Biomolecules (proteins, carbohydrates, lipids, nucleic acids). 	1 hr
Level II Descriptive, Practical test	<p><u>Part II : Electronics</u></p> <ul style="list-style-type: none"> ● Measurement of voltage, current and power in single and three phase circuits, Digital voltmeter, digital multimeter, Oscilloscope. <p><u>Part III : Physics</u></p> <ul style="list-style-type: none"> ● Unit and Dimensions of physical parameters 	3 hrs

	<ul style="list-style-type: none"> ● Characteristics of Metals, Insulators, Semiconductors, Ohm's law. ● Basics of Electrostatics and Magnetostatics. ● Systematic and random errors in measurement, propagation of errors. ● Optics: Reflection and refraction, Snell's Law, Refractive index. ● Electrical, Chemical, Fire, High field, low temperature and radiation safety measures and their signs. <p><u>Part IV : General Skills</u> Official Letter writing, General Knowledge, Logical Reasoning.</p>	
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Final selection will be based on the order of merit in the Level II exam only.

Tentative Schedule of Examination: 22-Jan-2025

The details of venue, time and other instructions shall be shared along with the hallticket that will be issued to the shortlisted candidates over email in due course.

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Registrar