

**Subject Wise Syllabus for Entry-Level post of
Category- II(Technical Assistant- Maintenance) pay level 5 of 7th
CPC Pay Matrix**

**A. Functional Group-Maintenance-Cat.-II- Technical Assistant
(Instrumentation)**

Shall include the syllabus of Diploma in Instrumentation Engineering broadly comprising of Principles of electrical and electronics engineering, basic electrical circuits, instrumentation and process control, electronic circuits and devices, electronic components and materials, control systems, principles of instrumentation, power electronics, microprocessor and applications biomedical instrumentation.

**B. Functional Group-Maintenance-Cat.-II- Technical Assistant
(Computer Science/Information Technology)**

Shall include the syllabus of Diploma level in Computer Science/Information Technology broadly comprising of Digital logic design, computer organization and architecture, computer networks, data structures using C, Database Management Systems, Object Oriented Programming with C++, Operating system, Software Engineering, Programming with Java, Web Programming, Software Testing, Network Security and Management, Information Storage and Management.

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**General Syllabus for Entry-Level post of
Category-II Technical Assistant pay level 5 of 7th CPC Pay Matrix**

To be used against General Awareness & Reasoning, General English & General Science and Arithmetic of framework elaborated at Para 2.2 of Appendix - XI of ICFRE TSR-2013 for all functional Groups viz. Field/Lab Research, Maintenance, Workshop, General Service and Para Medical.

A. General Awareness & Reasoning (20 MCQ):

I. General Awareness:-

Questions in this component will be aimed at testing the candidate's general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in their scientific aspects as may be expected from an educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to history, culture, geography, economic scene, general policy and scientific research etc. These questions will be such that they do not require a special study of any discipline.

II. Reasoning:-

Questions of reasoning would include questions of both verbal and non-verbal type. This component will include questions of analogies, similarities and differences, spatial visualization, spatial orientation, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetic reasoning, verbal and figure classification, arithmetical number series, non-verbal series, coding and decoding, statement, conclusion, syllogistic reasoning etc.

B. General English & General Science (20MCQ)

i. General English:-

Questions in this component will be designed to test the candidate's understanding and knowledge of English language and will be based on spot the error, fill in the blanks, synonyms, antonyms, spelling/detecting misspelled words, idioms & phrases, One word substitution, improvement of sentences, Active/Passive Voice of Verbs, conversion into direct/indirect narration, comprehension Passage etc.

ii. General Science:-

Basic understanding of science expected of a high school student

C. Arithmetic (20 MCQ)

The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The part will include questions on problems relating to numbers system, computation of whole numbers, decimals and fractions, relationships between numbers, fundamental arithmetical operations, percentage, ratio and proportion, average, interest, profit and loss, discount, use of tables and graphs, mensuration time and distance ratio and time etc.

