



GOVT. DEGREE COLLEGE HANDWARA

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NAAC Grade "B"

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No: DCH/2025/

102

Dated: 28/04/2025

Notice for e-Yantra Project Training Participants

This is to inform all students registered for the e-Yantra project training of IIT Mumbai that the online test will be conducted on **01/05/2025 at 10:30 AM sharp** in the **Smart Classroom**.

Students are required to bring their own laptops. Login credentials and the test URL will be shared shortly.

The test will consist of **30 multiple-choice questions**:

- 10 from Aptitude
- 10 from Electronics
- 10 from C Programming

You will have **30 minutes** to complete the test.
The test will be marked out of **90 marks**, with **+3 marks** awarded for each correct answer and **-1 mark** deducted for each incorrect answer.

The **syllabus** and the **list of participants** are attached with this notice.

Coordinator E-Yantra Project

Principal

e-Yantra Test Syllabus

Here is the subject-wise syllabus for the e-Yantra Online Selection Test

C-Programming:

The C Language and its Advantages, C Syntax and Constructs, Data Types and Variables, Operands, Operators, Arithmetic Expressions, Control Instructions – Looping and decision making, C preprocessor, Functions, Arrays, Pointers, Strings, Structures, Storage Classes, Input/output Management, C Compiler.

Reference Books:

- Let us C by Yashwant Kanetkar
- Test your C Skill by Yashwant Kanetkar

Electronics/Electrical:

Basic Electrical: Devices- Resistors, Capacitors and Inductors. Ohms Law, Kirchhoff's law, Network Theorems

Analog Devices and Circuits: Semiconductor Physics, Diodes and diode circuits, BJT and BJT circuits, FET and FET circuits, Opamp

Digital Electronics/Microcontroller: Number System, Logic Gates, Boolean expression and K-Map, Synthesis of Combinational Circuits and Sequential circuits, Memory device, 8-bit Microcontrollers, IO Interfacing, Interrupt, DMA, ADC/DAC

Reference Books:

- Basic Electrical by B.L.Theraja
- Electronic Devices and Circuit Theory by Robert L. Boylestad
- Digital Electronics by Morris Mano

- 8051 Microcontroller-Architecture, Programming and Applications by Kenneth J. Ayala

Logical Reasoning and Aptitude:

Time, Distance and work, Percentage, Profit-Loss, Ratio-Proportion, Simple and Compound Interest, Unitary Method, Permutation-Combination, Probability, Mensuration, Clock and Calendar, Numbers system, Progression, H.C.F. & L.C.M., Average, Percentage,

Alligation/Mixture, Relationship, Time, Speed, Distance and Work, Percentage, Profit-Loss, Ratio-Proportion, Simple and Compound Interest, Stocks, Shares, Dividend, Discount, Partnership, Unitary Method, Algebra, Permutation-Combination, Probability, Mensuration, Geometry, Trigonometry, Coordinate Geometry, Clock and Calendar, Set theory, Linear and non-linear equations.

Reference Books:

- Quantitative Aptitude by R.S. Aggarwal

Note: Books mentioned above are standard subject books. Participants are free to use any other books of their choice.



Government of Jammu & Kashmir
OFFICE OF THE PRINCIPAL
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List of Participants for e yantra project test on 01/05/2025

| S. No. | Participant's Name | e-mail Id |
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Coordinator E Yantra Project

Principal