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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:

1. Let us C by Yashwant Kanetkar
2. 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:

1. Basic Electrical by B.L. Theraja
2. Electronic Devices and Circuit Theory by Robert L. Boylestad
3. Digital Electronics by Morris Mano
4. 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:

1. 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.

e-Yantra is a project sponsored by [MHRD](#) through the [National Mission on Education through ICT \(NMEICT\)](#).



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