

Syllabus for Lateral Entry Entrance Test (CUJ) 2023-24

General Instructions:

1. Total 50 MCQs having 4 options for each will be given in entrance test.
2. Each question will carry 2 marks. There will be no negative marking for wrong answer.
3. Total time 60 minutes will be given to attempt the questions.
4. Syllabus have five parts: **General English, Fundamentals of Computers, Mathematics, and Aptitude.**

There shall be Multiple Choice Questions on the following topics:

English (10 MCQs)

1. Subject-Verb agreement
2. Text Completion Exercises
3. Basic Verb Patterns (SV, SVO, SVOO, SVC, SVOC, SVOA)
4. One-word Substitution
5. Commonly used idioms and phrases.
6. Prefix, Suffix, and Commonly confusing words, Analogy.
7. Phrases and Clauses: their types
8. Simple, Complex and Compound Sentences: Transformation and synthesis
9. Active and Passive Voice
10. Conditional Sentences
11. Removing Redundancy; Parallelism in sentences.
12. Parts and Kinds of Business Letters.

Fundamentals of Computer (10 MCQs)

1. Basic of Computers and its operation
2. Types of computers
3. Hardware Organization
4. Input-output devices
5. Input-output ports and connectors
6. Data representation
7. Introduction to programming languages
8. Operating systems
9. Computer networks and internet
10. Operators and expressions
11. Problem solving and programming methodology

Mathematics (20 MCQs)

1. Matrices
2. Eigenvalue

3. Eigenvector
4. Orthogonality
5. Solution of simultaneous equations
6. Similar matrix
7. Calculus
8. Function of several variables
9. Basic statistics: Mean, mode, median, standard deviations
10. Moments and random variables
11. Ordinary differential equations.

Aptitude (10 MCQs)

1. Allegations and mixtures
2. Problems on Age
3. Boat Problems
4. Data Interpretation
5. Number Series
6. Pipes and Cisterns
7. Quadratic Equations
8. Simplification and Approximation
9. Speed, Distance and Time
10. Data Sufficiency
11. Time and Work
12. Problems on Train