

Karnataka Examinations Authority, Bengaluru - 560012

PGCET: 2024 – 25

Number of MCQ questions for PGCET is 100. Each question carry one mark.

Examination mode: Online (computer Based Test)

Syllabus for PGCET in Master of Computer Applications (MCA)

(1) Mathematics.

(i)Algebra: Fundamental operations in Algebra, Expansion, Factorization, Simultaneous Linear/ Quadratic equations, Indices, Logarithms, Arithmetic, Geometric and Harmonic progressions, Binomial Theorem, Permutations and Combinations, Determinants, Matrices, Sets and application to solution of simultaneous linear equations.

(ii)Co-Ordinate Geometry: Rectangular Cartesian co-ordinates, Equations of Line, Midpoint, Intersections, etc., Equations of a Circle, Distance formulae, Pair of straight lines, Parabola, Ellipse and Hyperbola, Simple Geometric transformations such as Translation, Rotation, Scaling.

(iii)Boolean algebra: Basic operations, Evaluation of Boolean expressions, Basic postulates of Boolean algebra.

(iv)Trigonometry: Simple identities, Trigonometric equations, Properties of Triangles, Inverse function.

(v)Probability and statistics: Basic concept of probability theory, averages, dependent and independent events, Frequency distributions and measures of dispersions, skewness and Kurtosis, correlation and Regression, Random variables.

(2)Computer Awareness

(i)computer Basics: organization of a computer, central Processing Unit (CPU), Input /output devices, Computer Memory, Programming Languages, Types of Software's, General awareness about Internet. Web Applications, Database Applications and Information systems.

(ii)Data Representation: Representation of Characters, Integers and Fractions, Binary, ASCII and Hexadecimal representations.

(iii)Binary Arithmetic: Addition, subtraction, Multiplication, Division, Two's complement arithmetic, Floating-point representation of numbers, normalized Floating-point representation.

(iv)Operating systems: Evolution of operating systems, types of operating systems, functions of an operating system, modern operating systems.

(3) Analytical Ability and logical Reasoning

Logical Reasoning, quantitative reasoning and visuospatial reasoning.

(4)General Awareness

Awareness about Business, Finance, Industry, Transportation, Scientific inventions, Governance, Healthcare and Cultural dimensions. Entrepreneur and Entrepreneurship, Business Communication.

(5) General English

Basic English grammar, vocabulary, comprehension, synonyms, antonyms, sentence correction, word and phrases, jumbled paragraph.

