

M.P. PRE MCA TEST
MASTER OF COMPUTER APPLICATIONS
MCA ENTRANCE TEST

Eligibility For Admission :

A candidate seeking admission to MCA Course should be a Graduate of any Indian University or from a foreign University. The Bachelor's degree must be of minimum three years duration in any discipline with Mathematics as compulsory or additional subject at either Higher Secondary (10 + 2) or Graduation level.

Candidates in the Final year of any degree examination can also appear in the Pre-MCA test on provisional basis. Such candidates will have to produce the certificate of having passed the degree examination at the time of admission.

Examination Pattern :

Question paper shall be of the objective type. In which each question will have 4 alternative answers. The applicant is required to darken a bubble for the correct answer on the OMR answer sheet with HB pencil.

Marks and Time Alloted for Question Paper :

The question paper will contain 100 questions of 3 marks each. Duration of the paper will be 2 hrs and 15 minutes. Out of which the first 15 minutes are allotted for making the entries in the OMR answer sheet and for inspecting the question booklet for any printing or binding errors etc.

Examination Centre :

Bhopal, Gwalior, Indore, Jabalpur, Rewa, Sagar, Ujjain, Raipur, New Delhi, Lucknow

Syllabus :

Algebra : Solution of simultaneous equations, Binomial theorem, Logarithmic and exponential series. Determinant and its properties, Matrices addition and multiplication of matrices, computation of inverse of matrix.

Co-ordinate Geometry : Circle, Tangent, orthogonal circles, coaxial system of circles, Parabola, Ellipse and Hyperbola, their equations in standard form and simple properties.

Differential and Integral Calculus : Differentiation of algebraic, exponential and logarithmic functions. Application to simple problems, Maxima and minima, Partial differentiation of function of two variables, Integration by parts, Definite integrals and their properties, Area, Volume and Surfaces (of simple curves), Trapezoidal rule, Simpson's rule.

Differential and Difference Equations : Linear differential equations of first order, Difference equations of first order.

Statistics : Theory of Probability, Averages, Dispersion and standard deviation, Coefficient of variation, Skewness and coefficient of skewness, Coefficient of Correlation, Interpolation, Index number their importance, Time series, Fitting of curves, Method of least squares, Binomial Poisson and Normal distributions.

Computer Science : Basic concepts of Computer organisation, Number Systems, Elementary programming in BASIC

Logical and Numerical Ability : Simple questions to test numerical, analytical and logical ability of the candidate.

NIMS
KANPUR

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