

Syllabus and Marking Scheme for MAH-MBA/MMS CET 2024

Contents:-

A) Logical / Abstract Reasoning.

This shall include the questions to measure how quickly and accurately you can think. This test may have questions based on figures and diagrams and also questions on verbal reasoning.

B) Quantitative Aptitude.

This shall include the questions to know how fast and accurate you can work with numbers, do numerical calculations understand various arithmetic problems involving ratio and proportion, percentage, etc. This test also helps to measure your power of quantitative reasoning, interpretation of tables, common graphs and charts.

C) Verbal Ability and Reading Comprehension

This shall include passages with questions based on their contents to test your comprehension. Your English Language ability would be tested through questions on grammar, vocabulary, sentence completion, synonyms, antonyms, comprehension of passages etc. Your English language ability would be tested through questions on (1) understanding of the contents of the passage and (2) choice of appropriate words, phrases, expressions and similar language skills.

Sr.	Topics	No of Questions	Mark per Question	Maximum Marks	Total Marks
1	Logical Reasoning	75	1	75	200
2	Abstract Reasoning	25	1	25	
3	Quantitative Aptitude	50	1	50	
4	Verbal Ability / Reading Comprehension	50	1	50	
The test will comprise of multiple choice objective type questions (Five Options)					
There is no negative marking System for this test.					
Test Duration: 150 Minutes					
Medium of CET: English					
Mode of Examination - Online					

Syllabus & Marking Scheme for Master of Computer Applications MAH-MCA-CET 2024

The Online CET would comprise 4 sections viz. Mathematics & Statistics, Logical / Abstract Reasoning, English comprehension and verbal ability and Computer Concepts of total 200 marks , with composite time of 90 minutes duration.

Syllabus :-

- a) Mathematics & Statistics:** The questions will cover the following topics of high school mathematics (up to the 12th standard)
- Algebra : Fundamental operations in Algebra, Expansion, factorization, Quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions, binomial theorem, permutations and combinations.
 - Co-ordinate Geometry : Rectangular Cartesian co-ordinates, equations of a line, mid point, intersections etc., equations of a circle, distance formulae, pair of straight lines, parabola, ellipse and hyperbola, simple geometric transformations such as translation, rotation, scaling.
 - Differential Equations: Differential equations of first order and their solutions, linear differential equations with constant coefficients, homogeneous linear differential equations.
 - Trigonometry: Simple identities, trigonometric equations, properties of triangles, solution of triangles, height and distance, inverse function.
 - Probability and Statistics : Basic concepts of probability theory, Averages, Dependent and independent events, frequency distributions, and measures of dispersions, skewness and kurtosis, random variable and distribution functions, mathematical expectations, Binomial, Poisson, normal distributions, curve fitting, and principle of least squares, correlation and regression.
 - Arithmetic: Ratios and proportions, problems on time-work, distance-speed, percentage, etc.
 - Basic Set Theory and Functions: Set, relations and mappings.
 - Mensuration: areas, triangles and quadrilaterals, area and circumference of circles, volumes and surface areas of simple solids such as cubes, spheres, cylinders and cones.
- b) Logical / Abstract Reasoning:** This shall include the questions to measure how quickly and logically you can think. This section will cover logical situations and questions based on the facts given in the passage. This test shall check the problem solving capability of the candidate.
- c) English comprehension and verbal ability:** Questions in this section will be designed to test the candidate's general understanding of the English language. There will be questions on the topics such as Basic English grammar, vocabulary, comprehension, synonyms, antonyms, sentence correction, word & phrases, jumbled paragraphs.
- d) Computer Concepts**
- Computer Basics : Organization of a computer, Central Processing Unit (CPU), Structure of instructions in CPU, input / output devices, computer memory, memory organization, back-up devices.
- Data Representation : Representation of characters, integers, and fractions, binary and hexadecimal representations, Binary Arithmetic: Addition, subtraction, division, multiplication, signed arithmetic and two's complement arithmetic, floating point representation of numbers, normalized floating point representation, Boolean algebra, truth tables, Venn diagrams.
 - Computer Architecture: Basics of Digital Logic ,Block structure of computers, communication between processor and I / O devices, interrupts.
 - Computer Language: Fundamentals of Data & File Structures and high level language, Computer Programming in C, advanced concepts in programming.
 - Operating System basics

Marking Scheme and duration

Section	No of Questions	Marks per Question	Maximum Marks	Total Marks
Mathematics & Statistics	30	2	60	200
Logical / Abstract Reasoning	30	2	60	
English comprehension and verbal ability	20	2	40	
Computer Concepts	20	2	40	
The test will comprise of multiple choice objective type questions (Four Options)				
There is no negative marking System for this test.				
Test Duration: 90 minutes				
Medium of CET: English				
Mode of Examination - Online				
