

MCA-CET Information at a Glance

(Maharashtra MCA Common Entrance Test)

Applications are invited for MAH-MCA-CET for admission to First Year / Direct Second Year (Separate Division & Lateral Entry) of Three year full time Post Graduate Degree course in Master of Computer Applications (MCA) in the Government, Govt. Aided, University Managed, University Departments and Unaided Institutes in the Maharashtra State.

Eligibility Criteria for appearing to MAH-MCA-CET :

The candidate should fulfill the following eligibility criteria:

Passed with minimum of 50% marks in aggregate or equivalent CGPA (45% in case of candidates of backward class categories and Persons with Disability belonging to Maharashtra State only) in any Bachelor's degree awarded by any of the Universities incorporated by an act of the central or state legislature in India or other educational institutions established by an act of Parliament or declared to be deemed as a University under Section 3 of the UGC Act, 1956 of minimum three years duration in any discipline recognised by the Association of Indian Universities, or possess an equivalent qualification recognized by the Ministry of HRD, Government of India and having studied Mathematics or Statistics as one of the subjects at 10+2 level or higher level examination. (Candidates appearing for final year of qualifying examination are also eligible to appear for CET)

Appeared for the final year examination of any Bachelor's degree to be awarded by any of the Universities incorporated by an act of the central or state legislature in India or other educational institutions established by an act of Parliament or declared to be deemed as a University under Section 3 of the UGC Act, 1956 of minimum three years duration in any discipline recognised by the Association of Indian Universities, or an equivalent qualification recognized by the Ministry of HRD, Government of India and having studied Mathematics or Statistics as one of the subjects at 10+2 level or higher level examination. Such candidates can be considered for provisional admission subject to passing the Degree exam with minimum of 50% marks in aggregate* or equivalent CGPA (45% in case of candidates of backward class categories and Persons with Disability belonging to Maharashtra State only).**

SCHEME OF EXAMINATION

Sr.	Topics	No. of Question	Mark per Question	Maximum Marks	Total Marks
1.	General Aptitude	25	4	100	100
2.	Computer Concepts - Computer Basic, Data Representation, Computer Architecture, Computer Language, Operating System Basics	25	4	100	200

General Aptitude :

The main objective of this paper is to assess the general aptitude of the candidate to pursue a computer applications and software profession. The questions in this paper will cover: logical reasoning, quantitative reasoning, high school mathematics, vocabulary, English comprehension and verbal ability. A good grasp of the following topics of high school mathematics (up to the 12th standard) will be useful:

- **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, homogenous 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.

2. 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**: Block structure of computers, communication between processor and I/O devices, interrupts.
- **Computer Language**: Assembly language and high level language, Multiprogramming and time sharing operating systems, Computer Programming in C.
- **Operating System basics**: Multiprogramming and timesharing operating systems.

Note:

- Aggregate marks means the grand total of marks obtained by the candidate in subjects based on which the class declaration is made in the particular University from which the candidate is passing the qualifying examination.
- The candidates who have passed Bachelor of Computer Application (BCA), Bachelor of Computer Science (BCS), Bachelor of Science (Computer/Information Technology) degree courses are not required to fulfill the requirement of having studied Mathematics or Statistics as one of the subjects at 10+2 level or higher level examination and such candidates shall be eligible for First

Year/Second Year of three-year Full Time Post Graduate Degree Course in MCA.

- Refer Online Information Brochure for detailed Eligibility criteria and steps in the entire process of admission including Document Verification, Centralized Admission Process etc., for securing admission against the Maharashtra seats, OMS seats, Minority seats, Institute level seats and procedure of admission for NRI/ Foreign National / Foreign Students / PIO / Children of Indian Workers in the Gulf Countries etc.

Instructions for Registration for MAH-MCA-CET by candidate :

- MAH-MCA-CET shall be conducted only in the ONLINE mode in multiple sessions at all examination centers which will include multiple choice objective type questions (MCQs), using standardized equi-percentile method, will be equating scores across sessions. The question paper for the CET will be set in English only. Translations in any other languages will not be available.
- Note that MAH-MCA-CET will have negative mark system. Each correct answer will carry 4 marks. Each wrong answer will carry 1 negative mark. Unanswered questions will carry zero marks.
- It should be noted that no documents are required to be submitted at this stage. Candidates are advised to keep the necessary documents ready at the time of Document verification stage at ARC as per the notified schedule.
- Application form processing fees as stated below is to be paid at the identified Axis Bank Branches, in cash only, through Pay-in-Slip. The candidate can also do online payment of the fees by Internet Payment, Credit Card/ Debit Card payment gateway for which the service charges, as per rules, shall be applicable in addition to the application form processing fees. No other mode of payment shall be permitted.
- The Centralized Admission Process will consist of total four rounds, out of which first three rounds shall be based on computerized allotment and last round by counseling. Candidates are instructed to carefully read the Annexure-I of the Information Brochure to understand the eligibility criteria for participating in each round.
- Applications sent by Post/Courier etc., to ARCs/DTE office will be rejected and no communication in this regard will be made.
- The candidates belonging to SC, VJ/DT (NT (A)), NT (B), NT(C), NT (D), OBC and SBC categories should produce "Caste Validity Certificate" issued by Scrutiny Committee of Social Welfare Department and the Candidate belonging to ST category should submit "Tribe Validity Certificate" issued by Scrutiny Committee of Tribal Department and valid Non Creamy Layer certificate except SC,ST candidates at the time of verification of documents at ARC.

General Instructions :

1. The Candidate has to submit and confirm the Online Application Form for CET through candidate login by himself/herself from the place convenient to him/her. It is not required to report to ARC for confirmation.
2. Candidate can avail the facility available at ARC for confirmation of Application form. For availing the facility of ARC candidates are required to pay Notified Amount in cash as facilitation fee to ARC.
3. All ARC's shall remain open on all days excluding holidays and sundays for submission & confirmation of application form during the schedule. For ARC List refer annexure IV in the online Information brochure.
4. The schedule displayed above is provisional and may change under unavoidable circumstances. The revised schedule, if any, will be notified on website www.dtemaharashtra.gov.in. Please refer the website or contact the office of the Joint Director of Technical Education, Regional Offices or ARCs or contact on helpline numbers 022-30233444/45/46 for further information.

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GENERAL APTITUDE

REASONING

Reasoning

R-

Abbreviations.

2. Build your mental strength. This can be done by reading books, puzzles, Brain games etc.

Quantitative Aptitude & Numerical Ability

Quantitative Aptitude & Numerical Ability

Q-

Meditation etc.

4. Work hard and work intelligently.

English

English

E-

Profession.

6. Follow basic ethics of human life like honesty, commitment

to your profession, good character and so on.

MATHEMATICS

Mathematics

M-

8. Spend time and money for weaker sections of the society.

9. Believe in spiritual bliss of a poor Yogi or Brahmin.

10. Make time for spiritual growth.

11. Believe in spiritual growth.

Computer Concepts

C-

of your don't get success in the last. See where the

mistakes made by you and next time make those corrections.

COMPUTER CONCEPTS