

# MBA/MCA

## 1. SYLLABUS - For MBA

**MBA:** The broad outline syllabus for the Post Graduate Common Entrance Test for MBA PG Courses is detailed below:

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| <p><b>1. Proficiency in English Language:</b><br/>(Section - A)</p> <ul style="list-style-type: none"><li>a. Synonyms</li><li>b. Antonyms</li><li>c. One word Substitution</li><li>d. Idioms and phrases</li><li>e. Pairs expressing relationships</li><li>f. Grammar</li><li>g. Famous Books in English Literature</li><li>h. Sentence Correction</li></ul> <p><b>2. General Knowledge : (Section - B)</b></p> <ul style="list-style-type: none"><li>a. Indian Business Environment</li><li>b. Global Environment</li><li>c. Social Events</li><li>d. Cultural Events</li><li>e. Economics</li><li>f. Management</li><li>g. Political Events</li><li>h. Historical Events</li><li>I. Current Affairs</li><li>j. Sports</li><li>k. Awards</li><li>l. Personalities and Achievements</li><li>m. Science and Technology</li></ul> | <p><b>3. Test of Reasoning and General Intelligence (Section - C)</b></p> <ul style="list-style-type: none"><li>a. Puzzles</li><li>b. Diagrams</li><li>c. Analogy</li><li>d. Logic</li><li>e. Verbal Ability</li><li>f. Analytical Ability</li><li>g. Related Aspects</li></ul> <p><b>4. Quantitative Analysis (Section - D)</b></p> <ul style="list-style-type: none"><li>a. Arithmetic</li><li>b. Data Analysis and Interpretation</li><li>c. Statistics</li><li>d. Related Quantitative Aspects</li></ul> |
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## 2. SYLLABUS - For MCA

**MCA:** The question papers of the Post Graduate Common Entrance Test for MCA PG Courses are detailed below: The syllabus shall comprise of the following broad areas.

### **1. Mathematics.**

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

**2. Co-Ordinate Geometry:** Rectangular Cartesian co-ordinates, Equations of 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. **Vector:** Position vector, addition and subtraction of Vectors, Scalar and Vector products.

**3. Trigonometry:** Simple identities, Trigonometric equations, Properties of Triangles, Inverse function. **Probability and Statistics:** Basic concept 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.

### **2. Computer Awareness:**

**Computer Basics** : Organization of a computer, Central Processing Unit (CPU), Input / Output devices, Computer Memory, Back-up devices, Computer Languages, Operating Systems.

**Data Representation:** Representation of Characters, Integers and Fractions, Binary and Hexadecimal representations, Binary Arithmetic: Addition, Subtraction, Multiplication, Division, Two's complement arithmetic, Floating-point representation of numbers, Normalized Floating-point representation.

### **3. Analytical Ability and Logical Reasoning:**

The question in this section will cover Logical Reasoning, Quantitative reasoning and Visuo-spatial reasoning.

### **4. General Awareness:**

This section shall carry questions to test the general awareness about Business, Finance, Industry, Transportation, Scientific inventions, Governance, Healthcare and Cultural dimensions etc.

### **5. General English:**

Questions on Grammar and Vocabulary.

**IMPORTANT INSTRUCTIONS RELATED TO POST GRADUATE COMMON  
ENTRANCE TEST - 2015 AND SEAT  
ALLOTMENT PROCESS.**

**PRECEDING TO ENTRANCE TEST**

1. The information / particulars furnished by the candidates in their 'PGCET-2015' online application form are FINAL for admissions to MBA, MCA and ME/ M.Tech / M.Arch courses for the year 2015-16.
2. If the information submitted by the candidates in the online application form or any other document submitted by the candidate / parents are found to be false / incorrect, such candidate's seat will be cancelled at any point of time during his / her course of study and criminal proceedings will be initiated by the Government against such candidate as per Rules.

**DURING THE ENTRANCE TEST**

1. The Post Graduate Common Entrance Test for admissions to MBA, MCA and M.E. / M.Tech / M.Arch courses will be held as per the schedule notified.
2. The candidates must appear for Post Graduate Common Entrance Test for admission to MBA, MCA, M.E. / M. Tech / M. Arch courses as per the schedule notified by the Karnataka Examinations Authority.
3. The candidates should read the instructions printed on the OMR answer sheet before answering. The candidates have to mark the correct answers on the OMR answer sheet using BLUE OR BLACK INK BALL POINT PEN ONLY.
4. After completion of the test, the candidates must affix their LEFT HAND THUMB IMPRESSION in the space provided on the bottom portion of OMR answer sheet before handing over the same to the room invigilator.
5. After completion of the test, the candidates will be allowed to carry replica of the filled OMR answer sheet. Such replicas should be preserved for a period of one year.

THERE WILL BE NO NEGATIVE MARKING IN RESPECT OF WRONG ANSWERS  
BUT MARKS WILL NOT BE AWARDED IN RESPECT OF MORE THAN ONE

ANSWER INDICATED AGAINST A QUESTION BY A CANDIDATE ON THE OMR  
ANSWER SHEET