

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

  
(Dr. Subhash Mahajan)

Director

Technical Education, (M.S), Mumbai

**Syllabus and Marking Scheme for Master of Computer Applications (MCA) CET  
for Academic Year 2017-18.**

The Online CET would be comprised of two online papers viz. General Aptitude (GA) and Computer Concepts (CC) of 100 marks each, with composite time of 90 minutes duration. Each paper shall have 25 questions

**Contents:-**

**1. 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.

**Syllabus**

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**

**Syllabus**

- 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.

TOPICS	No of Questions	Mark/s per Question	Maximum Marks	Total Marks
General Aptitude	25	4	100	200
Computer Concepts- Computer Basics, Data Representation, Computer Architecture, Computer Language, Operating System Basics	25	4	100	
The test will comprise of multiple choice objective type questions (Four Options)				
There is negative marking System for this CET. Each correct answer will carry 4 marks. Each wrong answer will carry 1 negative mark. Unanswered questions will carry zero marks.				
Test Duration: 90 minutes				
Medium of CET: English				
Mode of Examination - Online				

  
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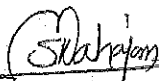
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**Syllabus and Marking Scheme for Master of Hotel Management and Catering Technology**

**(M. HMCT) CET for Academic Year 2017-18**

**Contents:-**

Sr.	Topics	No of Questions	Mark/s per Question	Maximum Marks	Total Marks
1	<b>Food and Beverage Operation</b> Food and Beverage Service Operations, related terminology, Inventory control, Food & Beverage equipment and infrastructure	10	02	20	100
2	<b>Food Production</b> Food Production operations, Indian & International cuisines and related terminology, Bakery and Confectionary, Hygiene and Safety standards, Kitchen equipments and Infrastructure.	10	02	20	
3	<b>Rooms division</b> Housekeeping and front office operations and related terminology, fabrics & textiles, Planning & designing of hospitality organisations, Laundry operations and procedures.	10	02	20	
4	English (Word meaning , comprehension, antonyms and synonyms, idioms and phrases, word spellings)	10	02	20	
5	Hospitality Industry related (Types of tourism, hotel and restaurant brands and segments , Airlines, hospitality terms, hospitality related organizations and regulatory bodies)	10	02	20	
The test will comprise of multiple choice objective type questions (Four Options)					
There is no negative marking System for this test.					
Test Duration: 60 minutes					
Medium of CET: English					
Mode of Examination - Online or Offline as the case may be					

  
 (Dr. Subhash Mahajan)

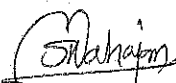
Director

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## Contents:-

Sr.	Topics	No of Questions	Mark/s per Question	Maximum Marks	Total Marks
1	<b>Building Technology</b> Building systems, Building Science and services, concept of green building, construction materials.	10	2 marks	20 Marks	100
2	<b>Environment</b> Concept and Ecology and landscape design, Environment laws and regulations, Environment design strategies w.r.t site.	10	2 marks	20 Marks	
3	<b>Architecture History and humanities</b> Awareness of Art and culture and architectural theory, major architecture movements in the world and in India.	10	2 marks	20 Marks	
4	<b>Settlement, design and planning</b> Urbanization, Urbanism, Urban and rural system, Infrastructure planning theory and history.	10	2 marks	20 Marks	
5	<b>Current Architecture Practice</b> Awareness of National building code. Town planning laws and development control regulation, knowledge of Regulatory and professional bodies on architecture.	10	2 marks	20 Marks	
The test will comprise of multiple choice objective type questions(Four Options)					
There is no negative marking System for this test.					
Test Duration: 60 minutes					
Medium of CET: English					
Mode of Examination - Online or Offline as the case may be					



(Dr. Subhash Mahajan)

Director

Technical Education, (M.S), Mumbai

Syllabus and Marking Scheme for Bachelor of Hotel Management and Catering Technology (B. HMCT) CET for Academic Year 2017-18

Contents :-

The On Line test will have 100 Questions based on Reasoning (Verbal as well as Arithmetic), English Language & General Awareness including questions on culture, current national, international affairs, trade & commerce, sports, scientific inventions and discoveries, travel/tourism etc.

Topics	No of Questions	Mark/s per Question	Maximum Marks	Total Marks
English Language	40	1	40	100
Reasoning (Verbal and Arithmetic)	30	1	30	
General Knowledge & Awareness including questions on current national, international affairs, culture, trade & commerce, sports, scientific inventions and discoveries, travel/ tourism etc.	30	1	30	
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				

  
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Director

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