



तंत्र शिक्षण संचालनालय, महाराष्ट्र राज्य,

3, महापालिका मार्ग, पत्रपेटी क्रमांक 1967, मुंबई 400 001.

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क्रमांक: २अ/एडीएम/२०१७/११८८

दिनांक: 13 OCT 2017

प्रति,
मा.आयुक्त,
राज्य सामायिक प्रवेश परीक्षा कक्ष, महाराष्ट्र राज्य,
३०५, शासकीय तंत्रनिकेतन इमारत, ४९, खेरवाडी, अलियावर जंग मार्ग,
मुंबई ४०००५१

विषय : शैक्षणिक वर्ष २०१८-१९ करिता तंत्रशिक्षण विभागांतर्गत असलेल्या व्यावसायिक अभ्यासक्रमांच्या प्रवेश परीक्षांच्या अभ्यासक्रमाबाबत....

महोदय,

वरील विषयानुषंगाने सादर करण्यात येते की, शैक्षणिक वर्ष २०१८-१९ करिता राज्य सामायिक प्रवेश परीक्षा कक्षातर्फे घ्यावयाच्या व तंत्रशिक्षण विभागांतर्गत असलेल्या व्यावसायिक अभ्यासक्रमांच्या प्रवेशासाठी सामायिक प्रवेश परीक्षांचे अभ्यासक्रम निश्चित करण्यासाठी संचालनालयाचे वतीने कार्यवाही करण्यात आली आहे. प्रथम वर्ष अभियांत्रिकी, औषधनिर्माणशास्त्र आणि फार्म डी पदवी अभ्यासक्रमांच्या प्रवेशासाठी शासन निर्णय शासन निर्णय उच्च व तंत्रशिक्षण विभाग क्रमांक टीईएम-२०१४/ प्र.क्र.२७३/ तांशि-४, दि. २७.०२.२०१७ आणि शासन पत्र उच्च व तंत्रशिक्षण विभाग क्रमांक टीईएम-२०१४/ प्र.क्र.२७३/ तांशि-४, दि. २४.७.२०१७ अन्वये मा.सचिव, महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक परीक्षा मंडळ, पुणे यांच्या सहभागासह, त्यांनी नियुक्त केलेल्या विषयतज्ञांची समिती गठित करून त्या समितीची दिनांक १६.८.२०१७ रोजी बैठक आयोजित करण्यात आली होती. सदर बैठकीत झालेल्या निर्णयानुसार आणि मा.सचिव, म.रा.मा.व उ.मा. परीक्षा मंडळ यांनी नियुक्त केलेल्या विषयतज्ञांनी सुचविल्यानुसार संचालनालयाने शैक्षणिक वर्ष २०१८-१९ मधील अभियांत्रिकी, औषधनिर्माणशास्त्र आणि फार्म डी पदवी अभ्यासक्रमांच्या प्रवेशासाठी आयोजित करावयाच्या सामायिक प्रवेश परीक्षांचा अभ्यासक्रम, भारांकन आणि परीक्षा पध्दतीबाबत दिनांक ४.१०.२०१७ रोजी प्रवेश सूचना प्रसिध्द केली आहे.

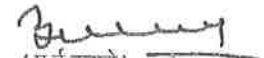
तसेच शैक्षणिक वर्ष २०१८-१९ करिता प्रथम वर्ष एमबीए/एमएमएस आणि एमसीए या पदव्युत्तर पदवी अभ्यासक्रमांच्या प्रवेशासाठी आयोजित सामायिक प्रवेश परीक्षेकरिता संबंधित विषयतज्ञांची बैठक दिनांक ६.१०.२०१७ रोजी संचालनालयात आयोजित करण्यात आली होती. सदर बैठकीत एमबीए/एमएमएस आणि एमसीए पदव्युत्तर पदवी अभ्यासक्रमांच्या प्रवेशासाठीच्या सामायिक प्रवेश परीक्षासाठीचा अभ्यासक्रम निश्चित करण्यात आलेला आहे.

राज्य सामायिक प्रवेश परीक्षा कक्षाच्या वतीने संचालनालयाकडून शैक्षणिक वर्ष २०१७-१८ मध्ये आयोजित केलेल्या सामायिक प्रवेश परीक्षेच्या अभ्यासक्रमांपैकी उपरोक्त नमूद प्रथम वर्ष अभियांत्रिकी, औषधनिर्माणशास्त्र, फार्म डी या पदवी अभ्यासक्रमांच्या आणि एमबीए/एमएमएस, एमसीए या पदव्युत्तर पदवी अभ्यासक्रमांच्या प्रवेशासाठीच्या सामायिक प्रवेश परीक्षेच्या अभ्यासक्रमात बदल झालेला आहे. उर्वरीत अभ्यासक्रमांच्या प्रवेशासाठी आयोजित करण्यात यावयाच्या सामायिक प्रवेश परीक्षांच्या अभ्यासक्रमांमध्ये बदल करण्यात आलेला नाही.

शैक्षणिक वर्ष २०१८-१९ साठी आयोजित करावयाच्या खालील अभ्यासक्रमांच्या प्रवेश परीक्षांसाठीचे पाठयक्रम सोबत स्वतंत्रपणे जोडून पाठविण्यात येत आहे.

1. MHT-CET 2018(for Engg/Pharmacy & Pharm D Course)
2. MBA/ MMS CET 2018
3. Master of Computer Applications (MCA) CET 2018
4. Master of Architecture (M. Arch) CET 2018
5. Master of Hotel Management and Catering Technology (M. HMCT) CET 2018
6. Bachelor of Hotel Management and Catering Technology (B. HMCT) CET 2018

आपला,


(ए ई रायते)भा.प्र.स.

संचालक, तंत्रशिक्षण, महाराष्ट्र राज्य, मुंबई

प्रत : मा.प्रधान सचिव, महाराष्ट्र शासन, उच्च व तंत्रशिक्षण विभाग, मंत्रालय विस्तार भवन, मुंबई ४०००३२ यांना
माहितीस्तव सादर


Syllabus and Marking Scheme for MHT CET 2018

1. The questions will be based on Syllabus of Maharashtra State Board of Secondary and Higher Secondary Education.
2. Approximately 20% weightage will be given to Std. XI curriculum and 80% weightage will be given to Std.XII curriculum while setting the question paper.
3. There will be no Negative Marking, however difficulty level will be at par with the JEE (Main) for Mathematics, Physics, Chemistry and difficulty level for Biology will be at par with NEET. The questions will be mainly application based.
4. MHT-CET will consist of 3 question papers of Multiple Choice Questions (MCQ) and each paper will be of 100 marks. Details are as given below :

Paper	Subject	Approximate No. of Multiple Choice Questions (MCQ) based on		Mark(s) Per Question	Total Marks	Duration in Minutes
		Std. XI	Std. XII			
Paper I	Mathematics	10	40	2	100	90
Paper II	Physics	10	40	1	100	90
	Chemistry	10	40			
Paper III	Biology (Botany)	10	40	1	100	90
	Biology (Zoology)	10	40			

5. The question will be set on
 - a) Whole syllabus of Physics, Chemistry, Biology and Mathematics subjects of Std XII
 - b) syllabus of Std XI as mentioned below:

Sr.No.	Subject	Chapters/Units of Std XI Syllabus
1	Physics	Measurements, Scalars and Vectors, Force, Friction in solids and liquids, Refraction of Light, Ray optics, Magnetic effect of electric current, Magnetism.
2	Chemistry	Some basic concepts of chemistry, States of matter: Gases and liquids, Redox reaction, Surface chemistry, Nature of chemical bond, Hydrogen, s-Block elements(Alkali and alkaline earth metals), Basic principles and techniques in organic chemistry, Alkanes.
3	Mathematics	Trigonometric functions, Trigonometric functions of Compound Angles, Factorisation Formulae, Straight Line, Circle and Conics, Sets, Relations and Functions, Probability, Sequences and series.
4	Biology	
	Section I - Botany	Diversity in organisms, Biochemistry of cell, Plant Water Relations and Mineral Nutrition, Plant Growth and Development.
	Section II -- Zoology	Organization of Cell, Animal tissues, Human Nutrition, Human Respiration


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 Director
 Technical Education, (M.S), Mumbai

Syllabus and Marking Scheme for MAH-MBA/ MMS CET 2018

Syllabus Contents:-

A) Logical / Abstract Reasoning.

This shall include the questions to measure how quickly and accurately you can think. This test is designed to assess the candidate's ability skills such as how to interpret number sequences or the relationships and questions based 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.

Marking Scheme and Time

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	

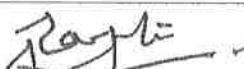
The test will comprise of multiple choice objective type questions (Five Options)

There is no negative marking System for this test.

Test Duration: **150 Minutes**

Medium of CET: English

Mode of Examination - Online


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Director

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Syllabus and Marking Scheme for MAH-MCA CET 2018

The Online CET would be comprised of 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, 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.

b) Logical / Abstract Reasoning

This shall include the questions to measures 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 paragraph.

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: Block structure of computers, communication between processor and I / O devices, interrupts.
- Computer Language: Assembly language and high level language, Computer Programming in C.
- 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 negative marking system for this CET. Each correct answer will carry 2 marks. Each wrong answer will carry 0.5 negative marks. Unanswered questions will carry zero marks.				
Test Duration: 90 minutes				
Medium of CET: English				
Mode of Examination - Online				


(A.E. Karve) S.
Director

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Syllabus and Marking Scheme for Master of Architecture (M. Arch) CET 2018

Contents:-

Sr.	Topics	No of Questions	Mark/s per Question	Maximum Marks	Total Marks
1	Building Technology Building systems, Building Science and services, concept of green building, construction materials.	10	2 marks	20 Marks	100
2	Environment Concept and Ecology and landscape design, Environment laws and regulations, Environment design strategies w.r.t site.	10	2 marks	20 Marks	
3	Architecture History and humanities Awareness of Art and culture and architectural theory, major architecture movements in the world and in India.	10	2 marks	20 Marks	
4	Settlement, design and planning Urbanization, Urbanism, Urban and rural system, Infrastructure planning theory and history.	10	2 marks	20 Marks	
5	Current Architecture Practice 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					


 (A.E. Rayate) A.S.
 Director

Technical Education, (M.S), Mumbai

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

(M. HMCT) CET 2018

Contents:-

Sr.	Topics	No of Questions	Mark/s per Question	Maximum Marks	Total Marks
1	Food and Beverage Operation Food and Beverage Service Operations, related terminology, Inventory control, Food & Beverage equipment and infrastructure	10	02	20	100
2	Food Production Food Production operations, Indian & International cuisines and related terminology, Bakery and Confectionary, Hygiene and Safety standards, Kitchen equipments and Infrastructure.	10	02	20	
3	Rooms division 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, autonyms 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					


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 Director

Technical Education, (M.S), Mumbai

**Syllabus and Marking Scheme for Bachelor of Hotel Management and Catering Technology
(B. HMCT) CET 2018**

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				


(A.E. Rajwade) I.A.S.
Director

Technical Education, (M.S), Mumbai