



GOVERNMENT OF MAHARASHTRA
STATE COMMON ENTRANCE TEST CELL, MAHARASHTRA STATE, MUMBAI

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No. State CET CELL/Paper Setters, Moderators and Chief Moderators /189/2023

Date : 12 3 JAN 2023

**CIRCULAR for Online Confidential work of
CET 2023-24**

Subject : Inviting proposals From the Teachers, Lecturers, Asst. Professors, Associate Professors, Professors, Head of The Departments working in Aided Colleges/ Government Colleges/ Departments of the Universities recognized by UGC in India to work as Subject Experts, Paper Setters, Moderators and Chief Moderators.

Preamble: Government of Maharashtra has established a State Common Entrance Test Cell (CET CELL) under Admission Regulatory Authority (ARA) as per the provision in Section 10 of Maharashtra Unaided Private Professional Educational Institutions (Regulation of Admissions and Fees) Act, 2015 published in Extra ordinary Gazette Part Eight, Extra Ordinary No. 52- dated 12th May 2015.

CET CELL is responsible for conducting online CET for Technical, Higher, Arts, and Medical Education Department's professional courses.

CET CELL is inviting the applications from Eligible, Experienced and Knowledgeable Academicians working in recognized Educational Institutions for creating a Question Bank MCQ (Multiple Choice Question) in English to be appointed as Item Writer Paper Setters, Moderators and Chief Moderators having expertise in content, questioning skill and evaluation methodology for the following courses of Technical Education, Higher Education, Medical Education & Fine Art.

A) Technical Education :-

Sr. No	Name of the Course	Name of the CET
1	Master In Computer Applications	MAH-MCA-CET
2	Master in Business Administration & Management Studies	MAH - MBA/MMS CET
3	Bachelor of Hotel Management & Catering Technology	MAH-B.HMCT-CET
4	Master of Hotel Management & Catering Technology	MAH-M.HMCT
5	Master of Architecture	MAH-M.Arch-CET
6	Bachelor of Deigns (B. Design)	MHT- B.Design CET
7	Bachelor of Planning (B. Planning)	MHT- B.Planning CET

B) Higher Education :-

Sr. No	Name of the Course	Name of the CET
1	Bachelor of Education & Master of Education three Year Integrated Course	MAH-B.Ed-M.Ed-CET
2	Bachelor of Law 3 Yrs	MAH-LLB-3Yrs
3	Master of Physical Education	MAH-M.P.Ed-CET
4	Bachelor of Law 5 Yrs Integrated Course	MAH -LLB.5Yrs-CET
5	Bachelor of Physical Education	MAH-B.P.Ed-CET
6	Bachelor of Arts/Bachelor of Science/Bachelor Education Four Year Integrated Course	MAH-B.A/B.Sc-B.Ed CET
7	Master of Education	MAH-M.Ed CET
8	Bachelor of Education General and Special with English Language Content Test (ELCT)	MAH-B.Ed & B.Ed (Elect)-CET

C) Medical Education :-

Sr. No	Name of the Course	Name of the CET
1	Postgraduate Courses in Physiotherapy , Occupational Therapy Speech Language Pathology /Audiology & Prosthetics & Orthotics	PGP/PGO/M.Sc.(SLP) (Audio)/M.Sc P&O

D) Fine Art :-

Sr. No	Name of the Course	Name of the CET
1	Bachelor of Fine Art	MAH-AAC CET

In exceptional cases, CET CELL will accept the applications from Retired /Working School Teachers/ Junior College teachers from Government Recognized/ Government/ Government Aided Institutes.

The Paper Setters, Moderators and Chief Moderators applying must have the ability to prepare the Multiple Choice Questions in various types and combinations in English.

The Complete Syllabus of the Course along with the Section/Item wise weightage is enclosed herewith as Annexure: A.

The Expert desirous of applying are expected to fill in your details and send your consent in the format Details of Question Paper Setter enclosed herewith as Annexure: B.

The Appointed Paper Setters, Moderators and Chief Moderators. will be shared the format to be used for preparing the Question Bank entitled Annexure: C. They are expected to create Multiple choice Questions on the Syllabus shared using various formats of multiple choice questions.

All communication and work done by you should be kept and treated as Highly Confidential.

On Receipt of Annexure B Acceptance Letter, all offers will be classified, analyzed based on Academic background, qualification and experience of the Experts.

The Course-wise short listed Experts' will be communicated individually and department wise Zoom/Google Meeting to explain and answer all the doubts regarding the Confidential Work will be organized.

The Remuneration for the work done, Paper Setters, Moderators and Chief Moderators will be as per the rates approved by Admissions Regulating Authority. The Remuneration will be paid online mode after CET result is declared.


The Interested Academicians are requested to submit their Proforma duly completed and mail it to higher1.cetcell@gmail.com within 15 days from the publishing of this Expression of Interest.

The selected Team of experts will be working on the Digital platform specially created for this purpose. They **will not be** asked to report to CET CELL. They will be able to work from Home or from their School/ Junior college, College/Department.

Some of the exceptional experts will be allotted the work of completing the Full Question papers for course for which they are eligible to work and will be given remuneration per question. Preference will be given to the Experts who are working with NTA and State approved Testing by Authorities.

Your support in this academic endeavor is highly solicited.




(Mahendra B. Warbhuvan, IAS)
Commissioner & Competent Authority,
State Common Entrance Test Cell,
MS, Mumbai.

Technical
Education
Syllabus

**Syllabus and Marking Scheme for Bachelor of Design
MAH-B Design CET 2023**

Contents:

MAH - B Design CET is the test devised to check the inclination and aptitude of the students for their keen observations, analytical ability, creative thinking ability, visualization & hand skills. Designers being interested in various aspect of life should be aware of the things happening around them in various spheres like nature-humanity-technology development. Looking at the things without biases, questioning the status quo, enables designers to think in a different way and bring new perspective towards the solution.

Entrance examination paper will have questions broadly but not limited to the topics mentioned in the two tables below. The test is divided into 2 main parts with total duration of 3 hours.

1. PART A is MCQ based questions, for duration of 90 minutes.
2. PART B is sketching skill based & problem-solving ability, for duration of 90 minutes.

	PART A (Duration: 90 mins)	Question types	No. of Questions	Marks/Question	Marks
1	General knowledge/awareness: General knowledge and current affairs	MCQs	20	1	20
2	Art & Design fundamentals: Elements and principles of design, aesthetic sensitivity, colour theory, Basic art history. Indian culture, other prominent cultures. Important crafts.	MCQs	20	1	20
3	Science - technology related knowledge: Basics of physics, geometry, Mathematics. Knowledge of practical and everyday mechanical and scientific concepts. knowledge of materials.	MCQs	15	2	30
4	Analytical and logical reasoning: Ability to look at information, recognize patterns and analyse given data. Sequences or relationships between shapes and imageries.	MCQs	15	2	30
	TOTAL		70 Questions		100 Marks

	PART B (Duration: 90 mins)	Question types	No of Questions	Marks/Question	Marks
1	Visualization and illustration ability (30 mins): Sketching/illustrating situation, context, event, people with attention to details. With right proportions, good line quality, composition, perspective, and shading.	Sketching	1	40	40
2	Design thinking and problem solving (60 mins): Understanding complex situations, going to root cause, and identifying problems, generate alternative ideas/solutions, evaluating options and developing final solutions.	Sketching	1	60	60
	TOTAL		2 Questions		100 Marks

- The PART A - Duration: 90 minutes - test will comprise of multiple-choice objective type questions, Numerical answer type questions.
- The PART B - Duration: 90 minutes - test will comprise of sketching, illustration, Product/idea using pencils, colour pencils, markers, sketch pens, pens, & any other suitable colouring mediums.
- There is no negative marking System for this test.
- Medium of CET: English
- Mode of Examination – offline (at selected centers)

Syllabus and Marking Scheme for Bachelor Planning MAH-B.Plan CET 2023

Contents:-

The On Line test will have 100 questions based on Mathematics (Part-I), Aptitude Test (Part-II) and Planning Based Questions (Part-III) for 200 marks.

Sr. No.	Paper	Topic	No. of Questions	Mark/s per Question	Total Marks	Duration (minutes)
1	Part-I	Mathematics	25	02	50	30
2	Part-II	Aptitude Test	50	02	100	60
3	Part-III	Planning Based Questions	25	02	50	30
TOTAL			100	-	200	120
The test will comprise of multiple choice objective type questions (Four Options)						
There is no negative marking System for this test.						
Test Duration: 120 minutes						
Medium of CET: English						
Mode of Examination – Online						

SYLLABUS FOR MAH-B.Plan CET 2023

Part I - MATHEMATICS

Unit-1: Sets, Relations and Functions:

Sets and their representation: Union, intersection and complement of sets and their algebraic properties; Power set; Relation, Type of relations, equivalence relations, functions; one-one, into and onto functions, the composition of functions.

Unit-2: Complex Numbers and Quadratic Equations:

Complex numbers as ordered pairs of reals, Representation of complex numbers in the form $a + ib$ and their representation in a plane, Argand diagram, algebra of complex number, modulus and argument (or amplitude) of a complex number, triangle inequality, Quadratic equations in real and complex number system and their solutions, Relations between roots and co-efficient, nature of roots, the formation of quadratic equations with given roots.

Unit-3: Matrices and Determinants:

Matrices, algebra of matrices, type of matrices, determinants and matrices of order two and three, properties of determinants, evaluation of determinants, area of triangles using determinants, Adjoint and evaluation of inverse of a square matrix using determinants and elementary transformations, Test of consistency and solution of simultaneous linear equations in two or three variables using determinants and matrices.

Unit-4: Permutations and Combinations:

The fundamental principle of counting, permutation as an arrangement and combination as section, Meaning of $P(n,r)$ and $C(n,r)$, simple applications.

Unit-5: Mathematical Inductions:

Principle of Mathematical Induction and its simple applications

Unit-6: Binomial Theorem and its Simple Applications:

Binomial theorem for a positive integral index, general term and middle term, properties of Binomial coefficients and simple applications

Unit-7: Sequence and Series:

Arithmetic and Geometric progressions, insertion of arithmetic, geometric means between two given numbers, Relation between A.M and G.M sum up to n terms of special series; S_n , S_{n^2} , S_{n^3} . Arithmetico-Geometric progression.

Unit-8: Limit, Continuity and Differentiability:

Real-valued functions, algebra of functions, polynomials, rational, trigonometric, logarithmic and exponential functions, inverse function. Graphs of simple functions. Limits, continuity and differentiability. Differentiation of the sum, difference, product and quotient of two functions. Differentiation of trigonometric, inverse trigonometric, logarithmic, exponential, composite and implicit functions; derivatives of order up to two, Rolle's and Lagrange's Mean Value Theorems, Applications of derivatives: Rate of change of quantities, monotonic-Increasing and decreasing functions, Maxima and minima of functions of one variable, tangents and normal.

Unit- 9: Integral Calculus:

Integral as an anti-derivative, Fundamental Integrals involving algebraic, trigonometric, exponential and logarithms functions. Integrations by substitution, by parts and by partial functions, Integration using trigonometric identities.

Evaluation of simple integrals of the type

$$\int \frac{dx}{x^2+a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{a^2-x^2}, \int \frac{dx}{\sqrt{a^2-x^2}}$$

$$\int \frac{dx}{ax^2+bx+c}, \int \frac{dx}{\sqrt{ax^2+bx+c}}, \int \frac{(px+q)dx}{ax^2+bx+c},$$

$$\int \frac{(px+q)dx}{\sqrt{ax^2+bx+c}}, \int \sqrt{a^2 \pm x^2} dx,$$

$$\int \sqrt{x^2 - a^2} dx$$

Integral as limit of a sum. The fundamental theorem of calculus, properties of definite integrals. Evaluation of definite integrals, determining areas of the regions bounded by simple curves in standard form.

Unit-10: Differential Equations

Ordinary differential equations, their order and degree, the formation of differential equations, solution of differential equation by the method of separation of variables, solution of a homogeneous and linear differential equation of the type.

$$\frac{dy}{dx} + p(x)y = q(x)$$

Unit-11: Co-Ordinate Geometry

Cartesian system of rectangular co-ordinates, 10 in a plane, distance formula, sections formula, locus and its equation, translation of axis, slope of a line, parallel and perpendicular lines, intercept of a line on the co-ordinate axes.

Straight line - Various forms of equations of a line, intersection of lines, angles between two lines, conditions for concurrence of three lines, the distance of a point from a line, equations of internal and external bisectors of angles between two lines co-ordinate of the centroid, orthocentre and circumcentre of a triangle, equation of the family of lines passing through the point of intersection of two lines.

Circle, conic sections - A standard form of equations of a circle, the general form of the equation of a circle, its radius and central, equation of a circle when the endpoints of a diameter are given, points of intersection of a line and a circle with the centre at the origin and condition for a line to be tangent to a circle, equation of the tangent, sections of conics, equations of conic sections (parabola, ellipse and hyperbola) in standard forms, condition for $Y = mx + c$ to be a tangent and point (s) of tangency.

Unit-12: Three Dimensional Geometry

Coordinates of a point in space, the distance between two points, section formula, direction ratios and direction cosines, the angle between two intersecting lines. Skew lines, the shortest distance between them and its equation. Equations of a line and a plane in different forms, the intersection of a line and a plane, coplanar lines.

Unit-13: Vector Algebra

Vectors and scalars, the addition of vectors, components of a vector in two dimensions and three-dimensional space, scalar and vector products, scalar and vector triple product.

Unit-14: Statistics and Probability

Measures of dispersion; calculation of mean, median, mode of grouped and ungrouped data calculation of standard deviation, variance and mean deviation for grouped and ungrouped data.

Probability: Probability of an event, addition and multiplication theorems of probability, Baye's theorem, probability distribution of a random variate, Bernoulli trials and binomial distribution.

Unit-15: Trigonometry

Trigonometrical identities and equations, trigonometrical functions, inverse trigonometrical functions and their properties, heights and distance.

Unit -16: Mathematical Reasoning

Statement logical operations and, or, implies, implied by, if and only if, understanding of tautology, contradiction, converse and contrapositive.

Part II - APTITUDE

Unit-1

Awareness of persons. Buildings, Materials. Objects, Texture related to Architecture and Build-environment, Visualising three dimensional objects from two-dimensional drawings. Visualising. Different sides of three-dimensional objects. Analytical Reasoning Mental Ability (Visual, Numerical and Verbal)

Unit- 2: Three Dimensional- Perception:

Understanding and appreciation of scale and proportions of objects, building forms and elements, colour texture harmony and contrast Design and drawing of geometrical or abstract shapes and patterns in pencil.

Transformation of forms both 2D and 3D union, subtraction rotation, development of surfaces and volumes, Generation of Plan, elevations and 3D views of objects, Creating two dimensional and three-dimensional compositions using given shapes and forms.

Part III – PLANNING

Unit-1: General Awareness

General knowledge questions and knowledge about prominent cities, development issues, government programmes etc.

Unit-2: Social Sciences

The idea of nationalism, nationalism in India, pre-modern world, 19th-century global economy, colonialism and colonial cities, industrialisation, resources and development, types of resources, agriculture, water, mineral resources, industries, national economy; Human Settlements.

Power-sharing, federalism, political parties, democracy, the constitution of India.

Economic development- economic sectors, globalisation, the concept of development, poverty; Population structure, social exclusion and inequality, urbanisation, rural development, colonial cities.

Unit-3: Thinking Skills

Comprehension (unseen passage); map reading skills, scale, distance, direction, area etc.; critical reasoning; understanding of charts, graphs and tables; basic concepts of statistics and quantitative reasoning.

**Syllabus and Marking Scheme for Bachelor of Hotel Management and Catering Technology MAH-
B.HMCT CET 2023**

Contents :-

The OnLine 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				

Syllabus and Marking Scheme for Master of Architecture MAH-M. Arch CET 2023

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

Syllabus and Marking Scheme for MAH-MBA/ MMS CET 2023

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 2023

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				

**Syllabus and Marking Scheme for Master of Hotel Management and Catering Technology
MAH-M.HMCT CET 2023**

Contents:-

Sr.	Topics	No of Questions	Mark 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 & Food and Beverage Operation Management.	10	02	20	100
2	Food Production Food Production operations, Indian & International cuisines and related terminology, Bakery and Confectionary, Hygiene and Safety standards, Kitchen equipment and Infrastructure & Food Production Management.	10	02	20	
3	Rooms division Housekeeping and front office operations and related terminology, Planning & designing of hospitality organisations, Laundry operations and procedures & Rooms division Management.	10	02	20	
4	English Word meaning , comprehension, autonyms and synonyms, idioms and phrases, word spellings	10	02	20	
5	Hospitality & Tourism Industry Types of tourism, hotel and restaurant brands and segments , Airlines, hospitality terms, hospitality related organizations and regulatory bodies, Global trends & Hospitality & Tourism Management. Use of Technology in hotels.	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					

Higher
Education
Syllabus



महाराष्ट्र शासन
शिक्षण संचालनालय, (उच्च शिक्षण)

महाराष्ट्र राज्य, मध्यवर्ती इमारत, पुणे ४११००१.

फोन नं. ०२०/२६०५१५१२

Web:www.dhepune.gov.in

E-mail : law.dhepune@nic.in

क्र. विधी-३२२२/प्र.क्र. ५८/सीईटीसेल/ १४४६७
प्रति,

दिनांक :

12 DEC 2022

मा. आयुक्त, राज्य सामाईक प्रवेश परीक्षा कक्ष,
तथा मा. सचिव, प्रवेश नियामक प्राधिकरण,
८ वा मजला, न्यू एक्सेलसिएर इमारत,
ए. के. नायक मार्ग, फोर्ट, मुंबई - ४०० ००१.

**विषय : उच्च शिक्षण संचालनालयाच्या अखत्यारीतील व्यावसायिक
अभ्यासक्रमांच्या शैक्षणिक वर्ष २०२३-२४ मधील व त्यापुढील शैक्षणिक
वर्षाकरिताच्या राज्य सामाईक प्रवेश परीक्षेच्या अभ्यासक्रमाबाबत. .**

**संदर्भ : राज्य सामाईक प्रवेश परीक्षा कक्षाचे पत्र क्र. उशिप्र-११२२/सीईटी-२३/
Syllabus/१६७०/२०२२, दिनांक १०/१०/२०२२**

महोदय,

उपरोक्त विषयांकित प्रकरणी सादर करण्यात येते की, उच्च शिक्षण संचालनालयाच्या अखत्यारीत एकूण ८ व्यावसायिक अभ्यासक्रम असून सदरहू अभ्यासक्रमाच्या राज्य सामाईक प्रवेश परीक्षेसाठीचा अभ्यासक्रम तयार केलेले वर्ष खालीलप्रमाणे :

अ. क्र.	अभ्यासक्रम	अभ्यासक्रम तयार केलेले वर्ष	अ. क्र.	अभ्यासक्रम	अभ्यासक्रम तयार केलेले वर्ष
१	विधी ३ वर्ष	२०१६-१७	२	विधी ५ वर्ष	२०१६-१७
३	बी.एड.	२०१६-१७	४	एम.एड.	२०१६-१७
५	बी.पी.एड.	२०१६-१७	६	एम.पी.एड.	२०१६-१७
७	बी.ए.बी.एड./ बी.एस्सी.बी.एड. (एकात्मिक)	२०१८-१९	८	बी.एड-एम.एड. (एकात्मिक)	२०१८-१९

उपरोक्त तक्त्यात नाव नमूद असलेल्या एकूण ८ व्यावसायिक अभ्यासक्रमाच्या राज्य सामाईक प्रवेश परीक्षेचा अभ्यासक्रम सोबत जोडलेला आहे. सदरहू अभ्यासक्रमानुसार शैक्षणिक वर्ष २०२३-२४ व त्यापुढील शैक्षणिक वर्षामधील राज्य सामाईक प्रवेश परीक्षांचे आयोजन करण्याची विनंती करण्यात येत आहे.

सोबत : अभ्यासक्रम (०८)



(डॉ. शैलेन्द्र देवळाणकर)
प्र. शिक्षण संचालक, उच्च शिक्षण
महाराष्ट्र राज्य, पुणे - १.

प्रत माहितीस्तव सविनय सादर -

मा. प्रधान सचिव, उच्च व तंत्रशिक्षण विभाग, मंत्रालय, विस्तार भवन, मुंबई - ३२.

Syllabus and Marking Scheme for LL.B. 3 Yr CET.

Sr. No.	Sections	No. of Questions	Marks per Question	Total Marks
1	Legal Aptitude and Legal Reasoning	30	1	30
2	General Knowledge and Current Affairs	40	1	40
3	Logical and Analytical Reasoning	30	1	30
4	English	50	1	50
	Total	150		150

Contents of the Syllabus:

I. Legal Aptitude and Legal Reasoning:

This subject will test candidate's interest towards the study of Law, Legal aptitude and problem solving ability. Questions will be framed with the help of legal prepositions and a set of facts to which the said prepositions have to be applied. Some prepositions may not be true in the real sense. Candidates will have to assume truth of these prepositions and answer the questions drawing well supported conclusions.

II. General Knowledge with Current Affairs:

The topics such as History (Ancient, Medieval and Modern), Geography, General Science, Economics, Civics and the Current Affairs of the past One Year. The subject is to assess the knowledge of the recent happening and awareness of the World.

III. Logical and Analytical Reasoning:


The subject is to test the candidate's ability to identify patterns, logical links and rectify illogical arguments. It will include wide analogies, completing arguments, drawing well supported conclusions, reasoning by analogy, applying principles or rules. Further the subject is to measure the ability to understand the structure, relationship and to draw logical conclusions about the structures. It includes reasoning deductively from the set of statements and rules or principles that describes the relationship among persons, things or events.

IV. English:

This section will consist the questions on the areas like Vocabulary (Synonyms, Antonyms, analogies etc.) Proficiency (Idioms and Phrases, One word Substitution, Sentence Improvement and rearrangement, fill in the Blanks etc.) English Usage Errors (Common errors, Spotting errors, inappropriate usage of words, spelling mistakes etc.) English Comprehension with minimum two passages followed by Five to Ten questions that test reading and reasoning abilities.

- The Questions will be Objective Multiple Choice Questions with Four Options.
- There is No Negative Marking.
- The time allotted is 2 Hours i.e. One Hundred and Twenty Minutes.
- The Questions will be in English and Marathi.




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Syllabus and Marking Scheme for LL.B. 5 Yr CET

Sr. No.	Sections	No. of Questions	Marks per Question	Total Marks
1	Legal Aptitude and Legal Reasoning	40	1	40
2	General Knowledge and Current Affairs	30	1	30
3	Logical and Analytical Reasoning	40	1	40
4	English	30	1	30
5	Basic Mathematics	10	1	10
	Total	150		150

Contents of the Syllabus:

I. Legal Aptitude and Legal Reasoning:

This subject will test candidate's interest towards the study of Law, Legal aptitude and problem solving ability. Questions will be framed with the help of legal prepositions and a set of facts to which the said prepositions have to be applied. Some prepositions may not be true in the real sense. Candidates will have to assume truth of these prepositions and answer the questions drawing well supported conclusions.

II. General Knowledge with Current Affairs:

The topics such as History (Ancient, Medieval and Modern), Geography, General Science, Economics, Civics and the Current Affairs of the past One Year. The subject is to assess the knowledge of the recent happening and awareness of the World.

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IV. English:

This section will consist the questions on the areas like Vocabulary (Synonyms, Antonyms, analogies etc.) Proficiency (Idioms and Phrases, One word Substitution, Sentence Improvement and rearrangement, fill in the Blanks etc.) English Usage Errors (Common errors, Spotting errors, inappropriate usage of words, spelling mistakes etc.) English Comprehension with minimum two passages followed by Five to Ten questions that test reading and reasoning abilities.

V. Basic Mathematics :

This is to test the numerical ability of candidates. The Mathematics questions will be set from std 10th level of various topics including Profit and Loss, Speed and Distance, Time and Work, Algebra, Average, Venn Diagram.

- The Questions will be Objective Multiple Choice Questions with Four Options.
- There is No Negative Marking.
- The time allotted is 2 Hours i.e. One Hundred and Twenty Minutes.
- The Questions will be in English and Marathi.



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Syllabus and Marking Scheme for B.P.Ed CET

Sr. No.	Sections	No. of Questions	Marks per Question	Total Marks
1	General Knowledge	15	1	15
2	Mental Ability	15	1	15
3	Teacher Aptitude and Sports Related Knowledge	20	1	20
	Total	50		50

Contents of the Syllabus:

I. General Knowledge :

(a) General Science and Technology (b) General History and Geography of India (c) Civics and Political Science (India) (d) Literature (e) Current Affairs at National Level.

II. Mental Ability:


(a) Logical Diagrams (b) Directional Sense (c) Relationship (d) Coding and Decoding (e) Number System

III. Teacher Aptitude and Sports Related Knowledge:

(a) Professional Commitment (b) Communication (c) Sports Awards (Central and State Govt.) (d) Olympic Games (e) Current Affairs on Various Sports and Games

- The questions will be Objective Multiple Choice Questions with Four options
- There is no negative marking. The time allotted is One Hour (Sixty minutes)
- Medium of Questions will be English, Marathi and Hindi.




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Syllabus and Marking Scheme for M.P.Ed CET

Sr. No.	Sections	No. of Questions	Marks per Question	Total Marks
1	Foundation of Physical Education .	10	1	10
2	Anatomy ,Physiology and Health Education	10	1	10
3	Teaching Methodology	10	1	10
4	Officiating Coaching and Management in Physical Education	10	1	10
5	Tests, Measurements and Evaluation in Physical Education	10	1	10
	Total	50		50

Contents of Sections:

I. Foundation of Physical Education :

(a) History of Physical Education (b) Psychological Foundation of Physical Education (c) Philosophical Foundation of Physical Education (d) Sociological Foundation of Physical Education (e) Various commissions ,schemes, policies , awards and role and contribution of Physical Education and Sports Institutes.

II. Anatomy ,Physiology and Health Education :

(a) Need and importance of Anatomy in Physical education (b) Exercise and Various Body Systems (c) Health Education – Need and importance in school curriculum. (d) Posture, Postural deformities and corrective exercises (e) Role of Physical Education Teacher in AIDS and Pollution awareness.

III. Teaching Methodology :

(a) Various teaching methods and principles (b) Unit Planning - Types , Pre-preparation Unit planning and Year Planning (c) Types of Competitions –Intramural and Extramural (d) Maxims of teaching ,Audio visual aids (e) Place of computer and internet in teaching

IV. Officiating Coaching and Management in Physical Education :


(a) Principles ,Purpose of Officiating and coaching (b) Periodization and its role in coaching (c) Skills ,techniques and rules of various games and sports (d) Duties and responsibilities of officials (e) Principles and need of sport management.

V. Tests, Measurements and Evaluation in Physical Education :

(a) Physical Fitness Test – HRPF, Motor fitness. (b) Sports skill Test- Football, Volleyball, Basketball, Badminton and Handball (c) Need and importance of tests (d) Criteria of selection of tests (e) Evaluation –Types, Principles and purpose.

- The questions will be objective Multiple Choice Questions with Four options.
- There is no Negative marking.
- The time allotted is One Hour (Sixty Minutes).
- Medium of Questions will be English ,Marathi and Hindi.




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Syllabus and Marking Scheme for B.Ed. CET

Sr. No.	Topics	No. of Questions	Marks per Question	Maximum Marks
1	Mental Ability	40	1	40
2	General Knowledge	30	1	30
3	Teacher Aptitude	30	1	30
	Total	100		100

Contents of Sections:

I. Mental Ability :

The content of this test aims to judge your reasoning power it also helps to judge how accurate you can think. This test will contain questions based on Series, Syllogism, Coding-Decoding, Relationship, Analogies, Classification, Problems on Dice, etc., either in Verbal or Non-Verbal form.

II. General Knowledge :


The aim of this section is to test how well you are acquainted with the happenings in the surroundings at Local, National, International Level including Past Events, Current Affairs including, Science and Technology, History, Geography, Civics, Political Science and Literature in General.

III. Teacher Aptitude :

The Test aims to know your capacity to become teacher. It will contain questions related to your keenness to update your knowledge, leadership qualities awareness about changes in Education and Society, Communication and Professional Commitment etc.

- The Test will comprise of Multiple Choice Objective Type Questions with Four Options.
- There is no Negative Marking System for this Test.
- Test Duration: 90 Minutes.
- Medium of CET: English and Marathi.




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MAH-B.Ed. English Language Content Test (ELCT)


Candidates who desire to seek admission to English Medium Colleges of Education will have to appear and qualify the ELCT-2019.

Sr. No.	Topics	No. of Questions	Marks per Question	Maximum Marks
1	Reading Comprehension	20	1	20
2	Vocabulary Focus	05	1	05
3	Grammar Focus	08	1	08
4	Sentence Formation	07	1	07
5	Phonetics	03	1	03
6	Verbal Idioms and Proverbs	05	1	05
7	Figures of Speech	02	1	02
	Total	50		50

- The Test will comprise of Multiple Choice Objective Type Questions with Four Options
- There is no Negative Marking System for this Test.
- Test Duration: 60 Minutes
- Medium of CET: English.
- Mode of Examination - Online

ELCT will be conducted for the Candidates opting for English Medium Colleges after the B.Ed. CET.




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Syllabus and Marking Scheme for M.Ed. CET

Sr. No.	Sections	No. of Questions	Marks per Question	Maximum Marks
1	Educational Philosophy- and Educational Sociology	20	1	20
2	Educational Psychology	20	1	20
3	Educational Evaluation Educational Statistics	20	1	20
4	School Administration and Management	20	1	20
5	Information and Communication Technology and Research Aptitude	20	1	20
Total		100		100

Contents of Sections:

I. (a) Educational Philosophy:

Idealism, Realism, Naturalism and Pragmatism.

Philosophers:

Rabindranath Tagore, Mahatma Gandhi, Mahatma Phule, Rousseau, John Dewey and Plato.

(b) Educational Sociology:

Education as an instrument of Change, Globalization, Modernization, National Integration, Value Education, Women Empowerment and Inclusive Education.

II. Educational Psychology :

Personality, Intelligence, Theories of Learning, Mental Health, Social Psychology, Models of Teaching, Constructivism, Guidance and Counseling (Concept).

III. (a) Educational Evaluation:

Concept, Types, Techniques, Methods, Taxonomy of Objectives.

(b) Educational Statistics:

Measures of Central Tendency and Measures of Variability.

IV. School Administration and Management:


Kothari Commission, National Educational Polity, National Knowledge Commission, School Administration and Management, Current Events, Right to Education, Law regarding Education, Indian Education System and Educational Problems, Secondary School Code.

V. Information and Communication Technology & Research Aptitude :

Use of Computers in Education (with reference to teaching, Learning, Evaluation and Administration) and Research Aptitude.

- The questions will be objective Multiple Choice Questions with Four options.
- There is No Negative Marking.
- The time allotted is One Hour Thirty Minutes i.e. Ninety Minutes.
- The Questions will be in English and Marathi.
- Mode of Examination - Online




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Syllabus and Marking Scheme for B.A.B.Ed. /B.Sc.B.Ed. CET

Sr. No.	Sections	No. of Questions	Marks per Question	Maximum Marks
1	General Knowledge	40	1	40
2	Mental Ability	30	1	30
3	Teaching Aptitude	30	1	30
	Total	100		100

Contents of Sections:

I. General Knowledge (40 Marks):

- i) Basic General Knowledge :
 - (a) Books and Authors (b) Awards and Honours (c) Important National Days. (d) Persons in News (e) Important Current Events.
- ii) Science and Technology:
 - (a) General Science (up to SSC Level) (b) Various Inventions (c) Technology.
- iii) History (up to SSC Level)
- iv) Geography (up to SSC Level)
- v) Indian Civics and Economics (up to SSC Level)
- vi) Indian Constitution with reference to Education.

II. Mental Ability (30 Marks):


This section aims to judge the reasoning power and accuracy in thinking. This section will cover the areas like: i) Reasoning Ability ii) Statements and Conclusions iii) Letter and Number Series iv) Analogy v) Odd Man Out vi) Numerical Ability vii) Logical Problems viii) Coding- Decoding.

III. Teaching Aptitude (30 Marks):

Teaching aptitude will cover the areas like i) Attitude towards Education, Students and Teaching Profession ii) Leadership Qualities iii) Emotional and Social Adjustment iv) Intra-personal relations and Intra-personal skills. v) General awareness and Interest in teaching.

- The questions will be objective Multiple Choice Questions with Four options.
- There is No Negative Marking.
- The time allotted is One Hour Thirty Minutes i.e. Ninety Minutes.
- The Questions will be in English and Marathi.
- Mode of Examination - Online




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Syllabus and Marking Scheme for B.Ed.-M.Ed. (Integrated) CET

Sr. No.	Sections	No. of Questions	Marks per Question	Maximum Marks
1	Teaching Aptitude	40	1	40
2	General Knowledge	30	1	30
3	Mental Ability	30	1	30
	Total	100		100

Contents of Sections:

I. Teaching Aptitude (40 Marks):

Teaching aptitude will cover the areas like i) Attitude towards Education, Students and Teaching Profession ii) Interest in Teaching iii) Leadership Qualities iv) Emotional, Moral, Ethical and Social Adjustment v) Intra-personal relations and Intra-personal skills vi) Class, Group, Community Management vii) General Awareness of Contemporary issues pertaining to Secondary and Higher Secondary Education.

II. General Knowledge (30 Marks) :

i) Basic General Knowledge :

- (a) Books and Authors (b) Awards and Honours
- (c) National and International Days. (d) Persons in News
- (e) Current Events with reference to Education.

ii) Science and Technology:

- (a) General Science (up to SSC Level) (b) Various Inventions
- (c) Technology.

iii) History (up to SSC Level)

iv) Geography (up to SSC Level)

v) Indian Civics and Economics (up to SSC Level)


vi) Indian Constitution with reference to Education.

III. Mental Ability (30 Marks):

This section aims to judge the reasoning power and accuracy in Thinking. This section will cover the areas like: i) Reasoning Ability ii) Blood Relations iii) Statements and Conclusions iv) Letter and Number Series v) Analogy vi) Odd man out vii) Numerical Ability viii) Logical Problems ix) Coding- Decoding.

- The questions will be objective Multiple Choice Questions with Four options.
- There is No Negative Marking.
- The time allotted is One Hour Thirty Minutes i.e. Ninety Minutes.
- The Questions will be in English and Marathi.
- Mode of Examination - Online.




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**Medical
Education
Syllabus**

Annexure I

The syllabus for Common Entrance Test shall be same as prescribed by Maharashtra University of Health Science, Nashik and Shall cover all the subjects of respective undergraduate course. The distribution of MCQ's at respective common entrance test are as follows:

(A) PGP-CET 2020: Per Question one mark.

Sr.	Topic	Max. Marks
1.	Anatomy	04
2.	Physiology	04
3.	Biochemistry	02
4.	Fundamentals of Exercise Therapy	05
5.	Fundamentals of Electro Therapy	05
6.	Pharmacology	02
7.	Pathology & Microbiology	04
8.	Psychology	01
9.	Psychiatry	01
10.	Electrical Agents	07
11.	Kinesio Therapeutics	07
12.	General Surgery & Orthopedics	06
13.	Medicine	06
14.	OB&G	03
15.	Physical Diagnosis & Manipulative Skills	08
16.	Physiotherapy in Musculoskeletal Condition	10
17.	Physiotherapy in Neurosciences	10
18.	Physiotherapy in General Medical & Gen. surgical condition	10
19.	Physiotherapy in Community Health	05
Total Marks :-		100

(B) PGO-CET 2020: No. of Questions

Sr.	Topic	Max. Marks
1.	Anatomy	04
2.	Physiology	04
3.	Biochemistry	02
4.	Fundamentals of OT-I	03

5.	Fundamentals of OT-II	03
6.	Pharmacology	02
7.	Pathology & Microbiology	04
8.	Psychology	04
9.	Ergotherapeutics-I	05
10.	Ergotherapeutics-II	05
11.	Medicine	06
12.	General Surgery & Orthopedics	06
13.	Work Physiology Ergonomics	02
14.	Psychiatry	04
15.	OT in Medical Conditions	06
16.	OT in Surgical Conditions	06
17.	Advances in OT and Rehabilitation	05
18.	OT in Neurological and developmental conditions	07
19.	OT in Orthopedic Conditions	07
20.	OT in Psychiatric Conditions	07
21.	Community based OT (PSM-OP)	05
22.	Biostatistics and Research Methodology	03
Total Marks :-		100

(B) M.Sc. (SLP) /M.Sc. (Aud.)-CET 2020:

Per Question One mark.

Sr.	Topic	Max. Marks
1.	Anatomy related to Speech, Language and Hearing	04
2.	Physiology related to Speech, Language and Hearing	04
3.	Linguistics	05
4.	Psychology	05
5.	Acoustics & Electronics	05
6.	Paediatrics	02
7.	Neurology	02
8.	Statistics	05
9.	ENT	04
10.	Community Oriented Service in Speech & Hearing	04
11.	Diagnostic Audiology	07
12.	Paediatric Audiology	07
13.	Hearing Aid and Cochlear Implant & ALDs	06
14.	Management of HI	05
15.	Noise & Hearing Conservation	05
16.	Childhood Speech and Language Disorder	05
17.	Articulation & Cleft Lip/Palate & Swallowing Disorders	05
18.	Voice Disorders and Laryngectomy	05
19.	Fluency Disorders	05
20.	Adult Neurogenic Disorders	05
21.	Neurogenic Speech Disorders	05
Total Marks :-		100

(D) M.Sc. (P&O) -CET 2020 Per question one mark

Sr.	Topic	Max. Marks
1.	Anatomy	04
2.	Physiology	02
3.	Pathology	02
4.	Materials, Tools, Equipment, P & O Workshop Technology	02
5.	Mechanics & Applied Mechanics & Strength of Materials	02
6.	Engineering Drawing	02
7.	Biomechanics - I	03
8.	Prosthetics & Orthotics Science - I	08
9.	Physical Medicine Rehabilitation	04
10.	Orthopaedics & Amputation Surgery	04
11.	Basic Electronics Electro Technology	04
12.	Computer Studies - I	02
13.	Biomechanics - II	03
14.	Prosthetics & Orthotics Science - II	08
15.	P & O Workshop Management	05
16.	Computer Studies - II	04
17.	Biomechanics - III	04
18.	Mobility Rehabilitation Aids	04
19.	Prosthetics & Orthotics Science - III	08
20.	Prosthetics & Orthotics Science - IV	25
Total Marks :-		100

Duration of paper will be of 1 hours & 30 minutes. Medium of examination will be English.

No candidate will be allowed to appear for the examination unless he/she holds downloaded an Admit Card and Photo ID proof as mentioned above.

The candidate will follow the instructions given at the On-line examination center.