



महाराष्ट्र राज्य तंत्र शिक्षण मंडळ.

(स्वायत्त) (ISO: ९००१:२०१५) (ISO/IES : २७००१-२०१३)

शासकीय तंत्रनिकेतन इमारत, चौथा मजला, ४९, खेरवाडी, बांद्रा (पूर्व), मुंबई - ४०० ०५१.

दूरध्वनीक्र.: २६४७१२५५ (का.)/२६४७ ०९१६ (वै.)

फॅक्स ९१-०२२-२६४७३९८०

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दिनांक: १ FEB 2020

परिपत्रक

प्रति,

प्राचार्य,

Civil Engineering (CE), Civil & Rural Engineering (CR)

आणि Construction Technology (CS) हे पदविका अभ्यासक्रम

राबविणा-या मंडळाशी सलगनीत सर्व संस्था.

विषय : Emerging Trends in Civil Engineering (22603) या विषयाच्या नमुना (Sample) MCQ उपलब्धतेबाबत.

उपरोक्त विषयाच्या अनुषंगाने आपणांस कळविण्यात येते की, संस्था राबवित असलेल्या Diploma in Civil Engineering (CE), Diploma in Civil & Rural Engineering (CR) आणि Diploma in Construction Technology (CS) या पदविका अभ्यासक्रमाच्या 'I' Scheme मध्ये सहाव्या सत्रात Emerging Trends (22603) हा विषय अनिवार्य आहे.

सदर विषयाच्या Learning Manual मध्ये नमुना MCQ चा अंतर्भाव केलेला नाही. सदर बाब दि. ०४.०१.२०२० रोजी अध्यापकांसाठी अयोजित केलेल्या Orientation Programm मध्ये अध्यापकांनी निदर्शनास आणून दिली व ते उपलब्ध करून देण्याबाबत विनंती केली होती. त्यासअनुसरून या विषयाचे नमुना MCQ अध्यापक व विद्यार्थ्यांना या परिपत्रका सोबत उपलब्ध करून देण्यात येत आहेत. संस्थाप्रमुखांनी याबाबतची माहिती संबंधित अध्यापक व विद्यार्थ्यांना द्यावी.

वि. र. जाधव

(वि. र. जाधव)

प्र. सचिव

म. रा. तंत्र शिक्षण मंडळ, मुंबई.

प्रत:

१. मा. संचालक, महाराष्ट्र राज्य तंत्र शिक्षण मंडळ, मुंबई यांना माहितीसाठी सादर
२. उपसचिव, म.रा.तंत्र शिक्षण मंडळ, विभागीय कार्यालय, नागपूर, औरंगाबाद, पुणे व मुंबई यांना माहिती साठी.

Sample MCQs

For

Emerging Trends In Civil Engineering

(22603)

Semester – VI

(CE/CR/CS)



**Maharashtra State
Board of Technical Education, Mumbai
(Autonomous) (ISO-9001-2015) (ISO/IEC 27001:2013)**

Unit-I
Sample MCQs on
Soft Computing Techniques

Q.1 Synchronization of the databases can possible so that multiple people can work in the software, even if they're working on different computers.

- a. Estimate Master b. AUTOCAD c. STADPRO d. Civil3D

Q.2 Following software enables construction teams to monitor and manage centralized estimates, takeoffs, reports and contracts.

- a. AutoCAD b. ProEst c. REVIT d. ArcGIS

Q.3 Home Automation is a part of -----

- a. Smart Plan 3D (SP3D) b. Building Management System (BMS)
c. SAP (Structural Analysis Program) d. Drawing

Q.4 Data Logging can be performed by using following software.

- a. Surveying b. Building Management System (BMS)
c. SAP (Structural Analysis Program) d. Drawing

Q.5 Following software is used to create and manage accurately designed 3 D models.

- a. SP3D b. STADPRO c. Construction Scheduling d. BMS

Answer: Q.1- a Q.2- b Q.3- a Q.4- b Q.5- a

Unit-II

Sample MCQs on

Recent Construction Materials

Q.1sand is the outcome of weathering of rocks.

- a. Natural sand b. Artificial sand c. Mixed Sand d. Crushed stone sand

Q.2 Piezoelectric crystals are embedded under the..... layer.

- a. Asphalt layer b. Sub-grade c. Sub-base d. Plastic

Q.3discovered the tensile strength of carbon fiber.

- a. Thomas Edison b. Roger Bacon c. NASA d. US Air force

Q.4 The application of Carbon Fiber in Civil Engineering is

- a. Reinforce concrete b. Reinforce the pipes c. Offshore environment structures
d. All of the above

Q.5are the most common type of litter worldwide.

- a. Cigarette butts b. Artificial Sand c. Sensi-Tile d. Carbon Fibre

Answer: Q.1- a Q.2- a Q.3- b Q.4- d Q.5- a

Unit-III
Sample MCQs on
Latest Tools And Equipments

Q.1. Forklift truck is used for

- a. Lifting and lowering b. Vertical transportation. c. Both 'a' and 'b' d. None of the above

Q.2. _____ is used to lift and move materials over short distances.

- a. Cranes b. Forklift truck c. Belt conveyor d. None of the above

Q.3. The main advantages of Mobile concrete mixer is

- a. Convenient to move from site to site
b. Convenient to change the installation site according to the need of construction project
c. Both 'a' and 'b' d. None of the above

Q.4. Cranes are used for

- a. Lifting and lowering b. Vertical transportation c. Both 'a' and 'b' d. None of the above

Q.5. The following is used to transport materials having flat bottoms.

- a. Belt conveyor b. Roller conveyor c. Chain conveyor d. None of the above

Answer: Q.1- c Q.2- b Q.3 - c Q.4 - c Q.5 - b

Unit-IV
Sample MCQs on
Sustainable Resource Management

Q.1 Which is not the strategies for sustainable water resource management?

- a. Non maintenance of water resources b. Rational strategic visions c. Conjunctive regional water supply systems d. reconstruction of water environments

Q.2 is one of the key measures of resolving water scarcity.

- a. Draught b. Water saving c. De watering d. Irrigation

Q.3 Prevent water pollution and to reconstruct the water environment are achieved by...

- a. Environmental protection laws and policies b. Water environmental education
c. Sufficient financial investment d. All above

Q.4 Sustainable water resource management should simultaneously satisfy demands.

- a. social, economic and environmental b. social, educational and commercial
c. Water, waste water and solid waste d. All above

Q.5 Water scarcity is a result of

- a. Efficient management of water b. Effective management of water
c. Mismanagement of water d. All above

Answer: Q.1- a Q.2- b Q.3- d Q.4- a Q.5- c

Unit-V
Sample MCQs on
Advancement In Construction

- Q.1 A building with net energy consumption equal to nil is called as
- a. Green Building b. Zero Energy Building c. Passive Energy Building d. Economic Building
- Q.2 The principle of zero energy building is.....
- a. to reduce carbon emissions b. to optimize carpet area c. to minimize use of pollutants
d. to use fossil fuels
- Q.3 Which of the following is not used for Zero Energy Building?
- a. High-efficiency solar panels b. High-efficiency heat pumps c. Highly insulating furniture
d. Highly insulating low-E triple-glazed windows
- Q.4 To reduce use of electricity one can suggest to use.....
- a. Generators b. Rechargeable battery c. Kerosene based lamps d. Photovoltaic cells
- Q.5 Which of the following organization certifies the green building in India?
- a. LEED b. DGNB c. CASBEE d. GRIHA

Answer: Q.1- b Q.2- a Q.3- c Q.4- d Q.5- d