



M.E. DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Second Semester

CONSTRUCTION MANAGEMENT

P18CME0001: Integrated Building Service Management

COURSE OUTCOMES

- CO1:** Plan layout in a neighbourhood.
CO2: Prepare functional planning of buildings.
CO3: Plan for fire safety requirements.
CO4: Understand the engineering services in building system.
CO5: Manage the facilities by MIS.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. **Assertion (A):** The concept of neighbourhood has achieved significant normative appeal and resonance in public policy. CO1 [K₂]
Reason (R): The neighbourhood is an organizational anchor for the promotion of planned change and acts as a site for encouraging more active citizenship independently without the involvement of the local governance.
- a) Both A and R are Individually true and R is the correct explanation of A b) Both A and R are Individually true but R is not the correct explanation of A
c) A is true but R is false d) A is false but R is true
2. Which of the urban form is also mentioned as Ribbon development? CO1 [K₂]
a) Point form b) Nuclear form
c) Linear form d) Poly nuclear form
3. Which of the following criteria is not connected with the Intelligent space planning? CO2 [K₂]
a) 1 only b) 2 only
c) 3 only d) 4 only

4. Match the type of building in List – II with the fire group category in List – I: CO3 [K₂]

List I	List II
A. Group A	i. Assembly
B. Group B	ii. Educational
C. Group C	iii. Residential
D. Group D	iv. Institutional

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|----|-----|-----|-----|----|--|
| | A | B | C | D | |
| a) | i | iii | iv | ii | |
| b) | ii | iv | iii | i | |
| c) | iii | ii | iv | i | |
| d) | iii | iv | i | ii | |
5. The code of practice adopted for fire sprinklers is CO3 [K_L]
- a) IS 15105 (2002) b) IS 13727 (2004)
c) IS 14665 (2000) d) IS 1172 (2002)
6. Choose the correct statement which influences the K factor of a Sprinkler system. CO3 [K₂]
1. Nature of the pipe material
 2. Roughness co-efficient of the pipe material
 3. Size of the sprinkler nozzle
 4. Entry pressure of the water flow
- a) 1 & 2 b) 3 & 4
c) 2 & 3 d) 1 & 3
7. Which of the following informs about potentially hazardous materials used in the workplace and its working details? CO4 [K₂]
- a) OSHA form 36 b) Materials safety Data sheet
c) Supplier data cards d) Safety and material instruction cards
8. **Assertion (A):** Single stack plumbing system is an economical system CO4 [K₂]
Reason (R): The traps of the basins are not directly connected to the vent pipe in partially ventilated single stack system
- a) Both A and R are Individually true and R is the correct explanation of A b) Both A and R are Individually true but R is not the correct explanation of A
c) A is true but R is false d) A is false but R is true
9. The key process areas (KPAs) are identified in management systems to enhance the effectiveness and the capability of the ____ CO5 [K₂]
- a) Quality assurance b) Maintenance personnel
c) Failure operation d) Maintenance procedures

Answer any TWO Questions

PART D (2 x 10 = 20 Marks)

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|-----|--|-----|-------------------|
| 31. | Discuss on the components and the various elements and their significance to be comprised in an urban form of a developing city based on a real time case study. | CO1 | [K ₃] |
| 32. | Explain Automatic wet riser sprinkler system with neat sketch. | CO3 | [K ₂] |
| 33. | With neat sketch discuss on the various plumbing layouts adopted in the drainage systems. | CO4 | [K ₂] |
