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**Total No. of Pages : 02**

**Total No. of Questions : 08**

**M.Tech.(SE) (Elective-IV) (Sem.-3)**  
**CONSTRUCTION AND MAINTENANCE MANAGEMENT**  
**Subject Code : CE-518**  
**M.Code : 35209**

**Time : 3 Hrs.**

**Max. Marks : 100**

**INSTRUCTION TO CANDIDATES :**

- 1. Attempt any FIVE questions out of EIGHT questions.**
- 2. Each question carries TWENTY marks.**

- Q1 (a) Using a suitable example with appropriate components explain how the water requirement for commercial and institutional purposes is estimated?
- (b) Explain how the fire demand is worked out? Demonstrate the use of codes of practice and different formulae.
- Q2. (a) Explain the different systems of electric wiring in residential buildings. What are major considerations in choosing a system of wiring?
- (b) Discuss the codal provisions for interior lighting, exterior lighting and egress lighting. What is meant by light pollution? Explain its importance in lighting.
- Q3. Enumerate the modern systems of air conditioning in Public building. Discuss their merits and demerits. Develop a cost comparison in respect of installation, Operation and maintenance.
- Q4. Discuss the suitability of any five building materials based on thermal conductivity. How does it affect the air conditioning load? '
- Q5. (a) Explain how the noise is estimated? Discuss the relevance of the units of measurement.
- (b) Enumerate and explain the measures of reduction of noise in buildings.
- Q6. Explain the following in respect of building bye laws and architectural controls :
- (a) Role of building bye laws
- (b) Regional planning
- (c) facade control
- (d) zoning

Q7. (a) Discuss the interrelationship between man and nature in respect of landscaping.

(b) Explain the importance of site analysis in landscape planning.

Q8. Write notes on :

(a) Rain water disposal

(b) FAR

(c) Effective absorption coefficient

(d) Classification of fire

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**