

Seat  
No.

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मंगल - 007

## Building Environment & Services

P. Pages : 1

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any five** questions.
5. Illustrate your answers with suitable sketches.
6. Answers should be written in same answer book.

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|----|----|--|----|
| 1. | a) | Explain natural and artificial lighting in buildings.  | 10 |
|    | b) | Discuss the design of Lighting system for buildings.   | 10 |
| 2. | a) | Explain special provisions of electric supply to multistoreyed buildings.                            | 10 |
|    | b) | Explain elevators, escalators & conveyers.   | 10 |
| 3. | a) | What is thermal insulation of buildings.   | 10 |
|    | b) | Why garbage chutes are installed in buildings.   | 10 |
| 4. | a) | Discuss approval procedures for water supply & sanitary schemes for buildings.                       | 10 |
|    | b) | Explain the importance of electrical grounding in buildings.   | 10 |
| 5. | a) | Explain electrical wiring systems in buildings.  | 10 |
|    | b) | Discuss the water supply systems for buildings.  | 10 |
| 6. | a) | Explain design criteria for swimming pools.  | 10 |
|    | b) | Explain with neat sketch the necessity of antisiphon pipe in waste water system.                     | 10 |
| 7. | a) | Explain installation, jointing & listing of pipes in buildings.                                      | 10 |
|    | b) | Explain roof water harvesting & water conservation.  | 10 |
| 8. | a) | Explain with neat sketch any two systems of building drainage.                                       | 10 |
|    | b) | Write a note on comfort factors for ventilation. Enlist different systems of artificial ventilation. | 10 |

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