

Seat
No.

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मापक- 013

Building Environment & Services (1010)

P. Pages : 2

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 the same answer book.

1. a) What are the important provisions of fire protection in highrise buildings ? 10
b) Explain the special provisions of electric supply to multi-storeyed buildings. 10
2. a) Explain noise problems in buildings & the remedies there to. 10
b) Enlist the thermal properties of insulating materials. 10
3. a) Why garbage chutes are installed in buildings. 10
b) What is thermal insulation of buildings. 10
4. a) Explain electrical wiring system in buildings. 10
b) Discuss approval procedure for water supply & sanitary schemes for buildings. 10
5. a) Explain the importance of Electrical grounding in buildings. 10
b) Explain with a neat sketch the importance of vent pipes in hot water systems. 10
6. a) Explain the design criteria for swimming pools. 10
b) Explain with neat sketch the details of water connection from main. 10

7. a) Explain the terms : 10
- i) Thermal transmittance
 - ii) Surface conductance
 - iii) Thermal conductance
 - iv) Thermal Resistance
 - v) Surface Resistance.
- b) Mention & explain any five factors that affect design and planning of electrical services in an industrial building. 10
8. a) Write a note on the comfort factors for ventilation. Enlist different systems of artificial ventilation. 10
- b) Explain with neat sketches any two systems of building drainage. 10
