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B.Arch. Eighth Semester (Architecture Engineering) (CGS)

10067: Environmental Services - II: 08 AR 03

P. Pages: 1 AU - 3082 Time: Three Hours Max. Marks: 80 All question carry as indicated marks. Notes: 1. Question No. 7 is compulsory. Illustrate your answer necessary with the help of neat sketches. 3. Use of pen Blue/Black ink/refill only for writing the answer book. 4. 1. Distinguish between Air conditioning and Air cooling. 8 Define the term ventilation? Why it is to be carried out. Explain the natural systems of b) 12 ventilation. OR 2. a) State the importance of service floor. Why it is to be provided. 6 5 State the factors affecting ventilations. b) Draw the sectional elevation of a multistory Building with refuse chute and explain it's 9 c) working in detail. Draw a sectional elevation of a Entrance foyer of a mall with provision of Escalators. 9 3. a) Explain it's component parts and working details. Explain the system of Automation in smart building. b) 5 Explain the combination of supply and extraction systems of ventilations. 6 c) Describe with the help of neat sketches uses of solar energy in building industry. 8 4. a) Describe with neat sketches the energy construction and low energy systems used in b) 8 State the importance of ducting systems in Air conditioning. 4 c) 20 5. Describe with the help of neat sketches any four from following. Fire escape stair case. Plenum systems. b) d) Service floor. Air Handling unit. Causes of fire in building. f) Alarm systems. g) Explain the causes of fire in building. How will you avoid them? 5 6. a) What precautionary measures will you take against fire while designing theatres or 6 b) Explain with the help of neat sketches the Automatic sprinkler systems used for fire 9 c) protection. 6 Explain with the help of neat sketches fire proof construction. 7. a) What are the different special features required for physically challenged and elderly people 8 b) in building types. What are the different causes of fire in building and how will you avoid them. 6 c)

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