

M.Tech. Structural Engineering & Construction CBCS Pattern Semester-I
PSES14 - Building Services

P. Pages : 1

Time : Three Hours



GUG/W/23/10964

Max. Marks : 70

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- Notes : 1. Solve **any five** question.
2. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Explain in details purification and treatment of water supply. **7**
b) Write a short note on. **7**
i) Municipal bye laws and regulations of water supply.
ii) Rain water harvesting.
2. a) Explain in detailed various sewage system in housing. **7**
b) What is Refuse and explain any one system of refuse disposal. **7**
3. a) Explain electricity distribution in Multistorey Building. **7**
b) Write a short note on. **7**
i) Modern theory of Light and colour
ii) Luminous flux
4. a) What are the different types of air conditioner? Write down its design criteria. **7**
b) Explain various precaution measure of fire that is caused by A. C. system. **7**
5. a) Write a short note on: **7**
i) Automatic sprinkler.
ii) Safety against fire in cinema hall.
b) Explain various causes of fire in building. **7**
6. Explain in detailed. **14**
i) Building Automation.
ii) Smart Building.
