

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.

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| 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. | |
