

B.Arch. Fifth Semester (Architecture) (CGS)
10038 : Building Services & Equipment : 5 AR 02

P. Pages : 2

Time : Three Hours



AV - 2810

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
 2. Answer **four** question.
 3. Question No. 7 is compulsory.
 4. Due credit will be given to neatness and adequate dimensions.
 5. Assume suitable data wherever necessary.
 6. Illustrate your answer necessary with the help of neat sketches.
 7. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain with neat sketches the function and working of "Floor Trap" and "Gally Trap"? 10
- b) Explain with neat sketches the laying of sewers. 10

OR

2. a) What do you know about 'Water carriage' lane system? Why it is more popular now a days? 7
- b) Explain with neat sketches the various types of systems of wiring for electrical distribution. 7
- c) Describe with neat sketches the different types of material used for the construction of sewers. 6
3. a) Explain the importance 'Trap' in a House drainage system? Explain how sewage disposal has been carried out from starting point to find point of disposal? 9
- b) Draw neat sketch of "Bath Tub" with hot and cold water supply and its various fittings. 6
- c) Draw neat sketch of 'Sokpit' and explain its function and working. 5

OR

4. a) Define the term **any four**: 4
 - i) Cowl
 - ii) Sullage
 - iii) Sewage
 - iv) Garbage
 - v) Strom water
 - vi) Bacteria
- b) Draw neat sketch of 'Over Head' Water tank and explain its working. 8
- c) Explain why water carriage lane system is more popular now a days? 8
5. a) Describe with neat sketches the various types of water supply pipe's and their fittings. 10
- b) Describe with neat sketch how will you give water supply to High-Rise building? 10

OR

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| 6. | a) | Draw neat sketch of a surface 'Water storage' reservoir' and explain its working and importance in water supply scheme. | 10 |
| | b) | Explain with neat sketches the function and working of solar water heater. | 10 |
| 7. | | Describe with neat sketches any five of the following. | 20 |
| | i) | Inlets | |
| | ii) | P. Q. S Trap with water seal. | |
| | iii) | Man-Hole | |
| | iv) | Systems of wiring | |
| | v) | Classification of sewer according materials. | |
| | vi) | Catch-Basin | |
| | vii) | Inspection chamber. | |
| | viii) | Ventilating shaft. | |
