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SUBJECT CODE NO:- H-5045
FACULTY OF SCIENCE AND TECHNOLOGY
S. Y. Arch (Sem-III)
E.S.S. - I
(Revised)

[Time:Three Hours]

[Max.Marks:100]

- N.B Please check whether you have got the right question paper.
1. Q.No.1 from section A & Q.5 section B are compulsory.
 2. Solve any two questions out of the remaining questions from each section.
 3. Draw neat sketches wherever necessary.
 4. Figures to the right indicate full marks.
- Section A**
- Q.1 Explain in brief with neat sketches (any three)
- | | | |
|--|--|----|
| | a) Pumping system of water distribution. | 08 |
| | b) Tree system of distribution network | 08 |
| | c) The ferrule connection | 08 |
| | d) Hourly variation in water demand. | 08 |
- Q.2 Draw a neat sketch & explain the hydraulic cycle in nature. Also write selection criteria for deciding source of water for water supply to a town. 13
- Q.3 Explain with neat sketches the need & importance of rain water harvesting system. 13
- Q.4 What are “traps”? State importance of traps, different types of traps and specific locations for installation of these traps. (Draw neat sketches) 13
- Section B**
- Q.5 Draw neat sketch and explain the functioning. (any three)
- | | | |
|--|-------------------------|----|
| | a) Aqua privy | 08 |
| | b) Septic tank | 08 |
| | c) European type of W.C | 08 |
| | d) Inspection chamber | 08 |
- Q.6 Explain in detail the stages of sewage treatment process. 13
- Q.7 Draw neat sketches and explain various types of distribution networks for water supply in an area. Also mention advantages and disadvantages of each type. 13
- Q.8 Write a note on importance of rain water harvesting and also explain water harvesting system for a small building with suitable sketch. 13