

Total No. of Questions : 10]

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SEAT No. :

[Total No. of Pages : 2

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B.E. (Civil)

PLUMBING ENGINEERING

(2015 Course) (Semester - II) (Open Elective - IV)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or 2, Q.3 or 4, Q.5 or 6, Q.7 or Q.8 and Q.9 or Q.10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.

Q1) a) Translate the role of Plumber. [6]
b) State Components of Plumbing required for rain water harvesting. [4]

OR

Q2) a) Define Plumbing and state the job of Plumbing Consultant. [5]
b) Explain Principles of Plumbing. [5]

Q3) a) Discuss the types of water supply pipes. [5]
b) Relate CPVC and Rigid PVC Pipes. [5]

OR

Q4) a) Explain Stainless steel pipes in plumbing Industry and State its Advantages. [5]
b) How does solar water heater works? [5]

Q5) a) Explain horizontal wet vent and vertical wet vent with neat sketches. [8]
b) State the trap requirements as per uniform plumbing code for [10]

- i) Design of Trap
- ii) Trap Seal and Trap Seal Protection
- iii) Trap Setting and Protection

OR

P.T.O.

Q6) a) Explain Purpose of trap and State its types with Suitability. [10]

b) Write a note on following.

- i) Grease Interceptors
- ii) Sand Interceptors

Q7) a) Explain sizing of house drain and sizing of its vent pipe. [8]

b) Write a note on following.

- i) Septic tank
- ii) Manholes

OR

Q8) a) Explain drainage air test and drainage water test procedure. [8]

b) Explain types of building sewer pipes with its suitability. [8]

Q9) a) Explain design of Plumbing system for multi- story Building. [8]

b) Explain basic guide to calculate falls and gradients for drainage. [8]

OR

Q10) a) Explain High rise building and Multi-story tanks [8]

b) Write a note on following.

- i) Centralized hot water supply.
- ii) Pressure Reducing valves.

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