

Total No. of Questions : 6]

SEAT No. :

P10

[Total No. of Pages : 1

APR.-17/B.E./Insem.-11
B.E. (Civil)
PLUMBING ENGINEERING
(2012 Pattern) (Elective - IV)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q.1 & 2, Q.3 or 4 and Q.5 or 6.*
- 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) Explain GPCS-I. [5]
b) State water quality norms and alternate water sources. [5]

OR

- Q2)** a) Describe the job of plumbing consultant. [5]
b) Explain coordination of mason and painter for execution of plumbing work. [5]

- Q3)** a) What are the design guidelines for Rainwater harvesting (RWH). [8]
b) Define conductor and leader in Rainwater harvesting (RWH). [2]

OR

- Q4)** a) How does solar water heater works? [2]
b) Explain flat plate and evacuated tube collectors. [8]

- Q5)** a) Explain bidets with sketch. [5]
b) Explain urinals with sketch. [5]

OR

- Q6)** a) Explain copper pipes in plumbing industry and state their advantages.[5]
b) Explain CPVC pipes in plumbing industry and state their advantages.[5]

