

Total No. of Questions : 4]

SEAT No. :

P266

[Total No. of Pages : 2

[5257]-3003

**S.Y. B.Arch. (Semester - III)
BUILDING SERVICES - I
(2015 Pattern)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answers to the two sections should be written in separate books.*
- 2) *All questions are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data wherever necessary.*
- 5) *Draw neat sketches if necessary.*

SECTION - I

Q1) Design an overhead water tank for an apartment building with 16 flats. Calculate water capacity and draw section of the same. **[15]**

OR

Explain with neat sketches 'Bib tap' stopcock with reference to their parts, location in water supply system.

Q2) Write short notes on (Any 4) : **[20]**

- a) Ferrule connection.
- b) Float valve.
- c) Two types of pumps used in water supply.
- d) Calori fier.
- e) Solar Water heater.
- f) G.I. pipe - Advantages & Disadvantages.

P.T.O.

SECTION - II

Q3) Draw and label all the parts of a septic tank and explain its working : [15]

OR

Explain with neat sketches Gully trap, disconnecting trap with reference to their use, location in drainage system.

Q4) Write short notes on (Any 4) : [20]

- a) Wash hand basin.
- b) Inspection chamber.
- c) Joining in stoneware pipe.
- d) Storm water drainage.
- e) Self cleansing velocity.
- f) Single stack system.

