



C14-C-407

4429

BOARD DIPLOMA EXAMINATION, (C-14)  
OCT/NOV—2018  
DCE—FOURTH SEMESTER EXAMINATION  
BUILDING SERVICES DRAWING

Time : 3 Hours]

[Total Marks : 60

PART—A

4×5=20

- Instruction :** (1) Answer **all** questions.  
(2) Each question carries **four** marks.  
(3) Any missing data may be assumed suitably.

1. Draw a plan of an Indian type water closet connection to a convenient scale.
2. Draw the cross-section of a rain water harvesting pit in a residential building.
3. Draw the conventional signs for the following items
  - (a) Meter
  - (b) Bell push
  - (c) Siren
  - (d) Two-way switch
4. Draw the electrical lay out for a single room of 6m × 4m showing light, fan and switch board to a suitable scale.
5. Draw the simplified diagram of solar water heater.

**PART—B**

20×2=40

\*

- Instruction :** (1) Answer **all** questions.  
(2) Each question carries **twenty** marks.  
(3) The drawing must be to the scale.  
(4) Any missing data may be assumed suitably.

6. Draw the following views of a sanitary block of consisting of 4 no. of water closets, 5 Nos. of bowel type urinals, 5 Nos. of bath rooms and 4 Nos. of wash basins, to a scale of 1:50.
7. Draw the sectional elevation of a lift shaft for multistoried building to a suitable scale.

Depth of pit = 1.3 m

Floor to floor height = 3.0

Top floor height = 2.1 m

R.C.C. slab thickness = 200 mm

R.C.C. wall thickness = 150 mm

Size of machine room = 2.25 m × 2.135 m

Size of lift car inside = 900 mm × 1100 mm

Size of lift room = 1500 mm × 1800 mm

No. of floors = 5

Lift entrance = 760 mm

\*

\*\*\*

\*