



C14-C-407

4429

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**OCT/NOV—2017**  
**DCE—FOURTH SEMESTER EXAMINATION**  
**BUILDING SERVICES DRAWING**

Time : 3 hours ]

[ Total Marks : 60

**PART—A**

4×5=20

**Instructions** : (1) Answer **all** questions.

(2) Each question carries **four** marks.

1. Draw the conventional symbols for (a) tube light and (b) exhaust fan, (c) 15 AMP 3 PIN socket and (d) way switch.
2. Draw the conventional signs for (a) IWC, (b) SINK, (c) Pan urinal and (c) wash basin.
3. Draw the cross section of a water harvesting pit.
4. Draw the electrical circuit diagram for one lamp controlled from two places using two way switches.
5. Draw conventional symbols for (a) air filter, (b) heat exchanger, (c) centrifugal fan and (d) condenser.

\*

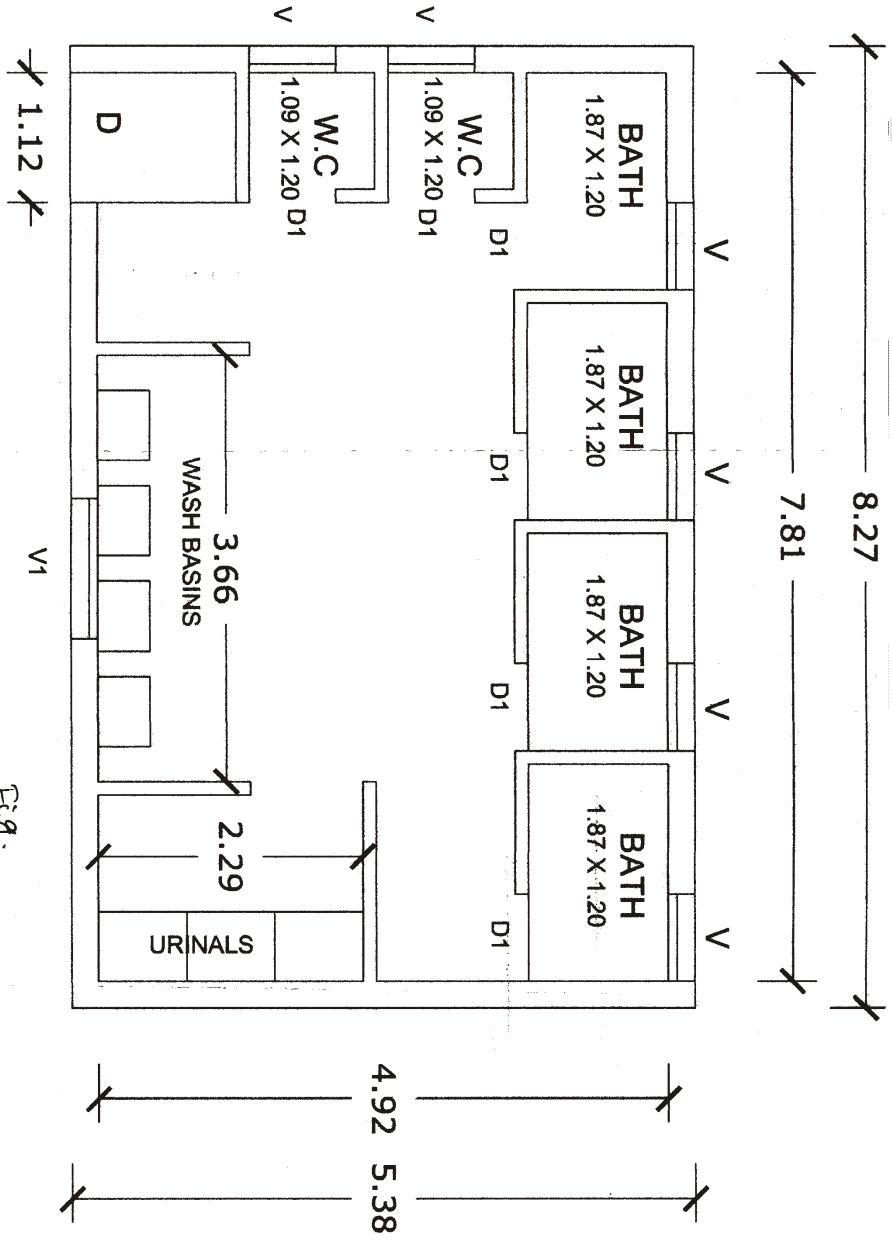
**PART—B**

20×2=40

**Instructions** : (1) Answer **all** questions.

(2) Each question carries **twenty** marks.

- 6.** (a) Draw the line diagram of a sanitary block plan to a suitable scale and show sanitary water pipe and line network.  
(b) Draw the electrical wiring details for the above problem.
- 7.** (a) Draw the cross section for the lift motor room.  
(b) Draw the block diagram explaining the working principle of solar water heating system.



PLAN OF SANITARY BLOCK

\*\*\*