NBP-001-005403   Seat No. _____

Second Year B. A. (ID) (Sem. IV) (CBCS) Examination

April / May – 2017

Services - I

(Water Supply & Drainage)

Faculty Code : 001
Subject Code : 005403

Time : **2** Hours]   [Total Marks : **50**

Instructions :

    (1)   All questions are compulsory.

    (2)   Any ambiguity will be considered as a wrong answer.

1   Choose the correct answers :   **9**

    (1)   Pipes used for drainage from WC should have diameter of...

        (a)   half inch   (b)   two inch

        (c)   four inch   (d)   six inch

    (2)   Trap used to collect waste water from wet floor is called....

        (a)   Nahani trap   (b)   Gully trap

        (c)   `S' trap        (d)   `P' trap

    (3)   Bottle trap is generally used in...

        (a)   Wash basin   (b)   WC

        (c)   Bath tub   (d)   Bidet

    (4)   Cock directly attached to wash basin for water supply is called...

        (a)   Bib cock   (b)   Pillar cock

    (5)   Which of the following Stop cock is used for air circulation inside plumbing lines ?

        (a)   Nahani trap   (b)   Manhole

        (c)   Vent pipe   (d)   Gully trap

(6) Function of trap in plumbing is...

(a) To maintain water level

(b) To provide water pressure

(c) To remove impurities from water

(d) To prevent entry of foul gases from sewer.

(7) U can have clear floor area while fixing which type of WC?

(a) `S' trap European WC

(b) Squatting type WC

(c) `P' trap European WC

(d) Wall hung WC

(8) Which is not one of the water distribution systems?

(a) Dead end system

(b) Gravity system

(c) Pumping system

(d) Combined gravity and pumping

(9) In what type of water supply system storage tanks are not necessary ?

(a) Continuous supply

(b) Intermittent supply

2 Answer any **three** in detail : 21

(1) Prepare a list of valves, taps and cocks available in market and also discuss their characteristics.

(2) Explain different possible factors affecting demand of water.

(3) Explain in detail sewerage systems. Compare combined and separate systems.

(4) What is the need of sewage disposal?

3 Design a layout in the given plan below, Highlight areas where water supply and drainage are required, and also draw and explain water supply system. **20**