



**SF - 6405**  
**B. Arch. - II (Sem. IV) Examination**  
**May / June - 2011**  
**Building Services & Equipment - II**

Time : 2 Hours]

[Total Marks : 50

**Instructions :**

(1)

<p>नीचे दृशायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B. ARCH. - 2 (SEM. 4)</p> <p>Name of the Subject : BUILDING SERVICES &amp; EQUIPMENT - 2</p> <p>Subject Code No. : 6 4 0 5 Section No. (1, 2,...): Nil</p>	<p>Seat No. : [ ][ ][ ][ ][ ][ ][ ]</p> <p>Student's Signature</p>
--	--

- (2) Figures in the right indicate full marks.
- (3) Support your answer with necessary icons and sketches.

1 Fill in the blanks : 10

- (i) The water demand for a hostel can be computed on the standard requirement of \_\_\_\_\_ LPCD.
- (ii) For a single family dwelling unit, the soil pipes have generally \_\_\_\_\_ mm as diameter and waste water pipes have \_\_\_\_\_ mm.
- (iii) For the purpose of filtration the water is made to pass through \_\_\_\_\_ beds.
- (iv) The demand of hospital for more than 100 beds including laundry is \_\_\_\_\_ LPCD per bed.
- (v) The discharge from the water closets, urinals, cowshed gullies etc. is referred to as \_\_\_\_\_.
- (vi) Waste water pipe is connected to \_\_\_\_\_ before joining the main sewer line.
- (vii) Chlorine is added to \_\_\_\_\_ the water.
- (viii) For the areas having no access to municipal sewerage network \_\_\_\_\_ can be used for disposal of sewage.
- (ix) Tree type distribution layout is advisable for \_\_\_\_\_ type of towns.

- 2 (a) Explains briefly : 5  
Water treatment process where source is river water.
- (b) Explain through sketches : (any **three**) 15
- (i) Draw a section through a Bath tub, as used with standard measurement.
  - (ii) A typical section through kitchen sink.
  - (iii) Draw a sketch of over head water tank with all components.
  - (iv) A dug well/bore well.
- 3 (a) Explains : 10  
For a residence of two BHK, toilet attached to master bedroom, measuring  $2.20 \times 2.5$  meters, having European commode, basin and shower area, design the appropriate layout and show the fixtures in plan as well as section passing through the WC.
- (b) Write short notes : (any **two**) 10
- (i) Composite Plumbing Pipes
  - (ii) List down different types of water distribution system at city level. Explain any one of them.
  - (iii) Explain two pipe system use for sanitation purpose
  - (iv) Soak pit and its applications.
-