



UG-6405

B. Arch. - II (Sem. - IV) Examination

May\June - 2012

ARC - 406 : Building Services & Equipments - II

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांशवैध निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
B. Arch. - II (Sem. - IV)	<input type="text"/>
Name of the Subject :	<input type="text"/>
ARC - 406 : Building Services & Equipments - II	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="4"/> <input type="text" value="0"/> <input type="text" value="5"/>	<input type="text"/>
Section No. (1, 2,...): Nil	<input type="text"/>
	Student's Signature

- (2) Figures in right indicate full marks.
(3) Support your answers with necessary icons and sketches wherever necessary.
(4) All questions have to be attempted in one answer sheet only.

1 Fill in the blanks : 10

- (i) The water demand for a residence (domestic consumption) can be computed on the standard requirement of _____ LPCD.
- (ii) In two pipe plumbing system for waste disposal, one pipe collects _____ and the other collects _____.
- (iii) The demand of hospital for more than 100 beds including laundry is _____ LPCD per bed.
- (iv) The PVC plumbing pipes are generally available in the lengths of _____.
- (v) The water seal required for W/C trap is _____.
- (vi) For the purpose of filtration the water is made to pass thru _____ beds.
- (vii) The discharge from the water closets, urinals, cowshed gullies etc. is referred to as _____.
- (viii) Chlorine is added to _____ the water.
- (ix) Water from springs and streams flows towards basin and _____ are formed.

- 2 Explain briefly with brief sketch : Manhole. 5
- 3 Explain through sketches : (any **three**) 15
- (i) Draw a section through a Bathtub, as used with standard measurement.
 - (ii) For a residence of two BHK, bathroom attached to master bedroom, measuring 2.25×2.5 meters, having European commode, design the appropriate layout and show the fixtures in plan as well as section passing through the WC along with dimensions.
 - (iii) Draw a section through the septic tank showing all the typical features.
 - (iv) Draw a sketch of over head water tank with all components.
- 4 Explains : 10
- (i) What is a 'Trap' as used in drainage design ? Explain general requirement of a good trap. Draw and discuss: Gully trap & Floor Trap.
- 5 Writes short notes : (any **two**) 10
- (i) One pipe system of plumbing.
 - (ii) Rain water harvesting for a family dwelling unit.
 - (iii) List and explain the parameters regarding the quality of drinking waters as specified by standards.
 - (iv) List down a layout of water distribution system at city level. Explain any one.
-