



RM-6405

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

May / June - 2010

Building Services - I

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दशांशवैल निशानीवाणी विगतो उत्तरवडी पर अवश्य दधवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. ARCH. - 2 (SEM. - 4)

Name of the Subject :
BUILDING SERVICES - 1

Subject Code No. : 6 4 0 5 Section No. (1, 2.....): NIL

Seat No. :

Student's Signature

(2) Figures in right indicate full marks.

(3) Support your answers with necessary icons and sketches.

Q.1 Fill in the blanks.

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- _____ traps are used to segregate the private drainage line from public drainage.
- The water seal of floor traps is generally _____.
- _____ means all non decomposing organic wastes but excluding ashes.
- Curb and gutter inlets are comes under _____ inlet categories.
- The demand of hospital for more than 100 beds including laundry is _____ LPCD per bed.
- Opening constructed on lines of sewer or drain in order to enable man to enter in the sewer is known as _____.
- When the surface of earth drops sharply below the normal ground water table _____ forms.
- Average Indian requirement of water demand is _____ LPCD.
- Decomposing organic waste resulting from the growing, handling, cooking or consumption of food products are known as _____.
- Infiltration galleries are _____ sources.

Q.2 A. Draw a toilet layout of 6'x4' in size showing all the plumbing and sanitary fixtures and fittings. 10

B. What are septic tanks and where are they used. Discuss with the help of a neat sketch. 10

Or

B. What are manholes? Discuss the components with the help of a neat sketch. 10

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[Contd...

- Q.3 A. Write short notes. 10**
1. What is traps? Enlist general requirements of good traps.
 2. Draw a figure of under ground water tank showing all its components.
- B. Write short notes. (Any two) 10**
1. Single stack system with its merits and demerits.
 2. Explain with sketches- Dead End and Grid-Iron system of water distribution.
 3. Enlist the types of process to remove impurities of raw water.
 4. What is water demand? Discuss Domestic water demand.
- Q.4 A. Fill in the blanks. 4**
1. The _____ between the 2 poles of the battery during the flow of the current is called _____.
 2. The radiant _____ is in form of a _____ motion.
- Q.4 B. Define in one line. 6**
1. Watt
 2. Colour Rendering Index (RI)
 3. fuse
- Q.5 A. Explains methods of collection of waste with its merits and demerits. 10**
- B. Write short notes. (Any two) 10**
1. What are the thumb rules for good lighting schemes for Accent lighting, Task and Ambience lighting?
 2. Give difference between single phase and three phase supply.
 3. Discuss the various characteristics one should consider while purchasing products for illuminations.
 4. Explain the electricity distribution system from the meter box to individual room.

Q.6 Draw the electrical layout for the plan given below showing.

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1. MB, MDBs, CB
2. SB, light points, plug points and equipment points.
3. Electrical schedule.

