

2013

Building Services -I

Paper : 3.6

Full Marks : 100

Time – 3(Three hours)

*The figures in the margin indicate full marks for the questions
Answer any Five questions compulsory*

1. Describe water distribution system to a city with sketches. 20
Or,
Enlist the sources of water supply. Explain any two 20
of the underground sources in detail with sketches.
Or,
What are the two systems of water supply? State the 20
disadvantages of intermittent system of water supply.
2. What are the two systems of water supply?
State the disadvantages of intermittent system
of water supply.
Or,
Explain with sketch the schematic layout of water 20
distribution system in high rise building from municipal
water supply connection.
Or,
(i) Explain in brief different impurities in water.
(ii) Write down the various classifications of wells.
Explain in brief.
3. What are the principle of centrifugal pump. 5+10+5=20
Explain its component parts. What are the
different types of pumps?
Or,

(2)

- (i) Write down the objectives of purification of water 5+5+15
- (ii) Write down the different methods of water purifications. Explain the sequences treatment of water purification with a flow diagram.

Or,

Write short note with sketch. 10×2=20

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|-------------------|--|
| (a) Water meter | (b) Float valve |
| (c) Flushing | (d) Ferrule. |
| (e) Spring (Air) | (f) Types of pipe for water supply based on material |
| (g) Bibcock | (i) Hot water supply |
| (h) Conduits | |
| (j) Fire hydrants | |

4. (i) Explain sewage, sewer & sewerage. 5+15=20
- (ii) Explain in brief the various methods of sewage collection.

Or,

What is the purpose of trap? What are the different types of trap? What are the different types of trap? Explain with sketch. 20

Or,

Describe systems of drainage with sketch. 20

5. Describe a septic tank with sketch. 20

Or,

Write short note with sketch- 10×2=20

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|-------------------------|--------------------------------|
| (a) Wash basin | (b) Anglo-Indian W.C. |
| (c) Intercepting trap | (d) Gulley trap. |
| (e) Septic tank. | (f) Indian W.C. & Western W.C. |
| (g) Anti siphonage pipe | (h) 4-systems of drainage. |
| (i) Inspection chamber | (g) Conduit. |