

Interview Questions

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WATER SUPPLY Engineering Objective Questions :-

1. If four fires break out in a city of population 40 lakhs and if each hydrant has three streams and duration of each fire is four hours, the total quantity of water required, is

- A. 1880 kilo litres
- B. 2880 kilo litres
- C. 3880 kilo litres
- D. 4880 kilo litres.

Ans: B

2. The fire demand of a city may be worked out by

- A. Kuichling's formula
- B. Freeman formula
- C. Under Writers formula
- D. Bustan's formula
- E. All the above.

Ans: E

3. Aeration of water is done to remove

- A. odour
- B. colour
- C. bacterias
- D. hardness
- E. turbidity.

Ans: A

4. The yield of a rapid gravity filter as compared to that of slow sand filter, is

- A. 10 times
- B. 15 times
- C. 20 times
- D. 30 times
- E. 35 times.

Ans: D

5. Disinfection of drinking water, is done to remove

- A. odour
- B. bacterias
- C. turbidity
- D. colour.

Ans: B

6. Sunlight

- A. helps growth of bacterias
- B. impedes growth of algae
- C. increases dissolved oxygen content
- D. reduces turbidity.

Ans: B

7. The expected discharge to be obtained from an open well sunk in coarse sand is 0.0059 cumec. If the working

depression head of the well is 3 m, the minimum diameter of the well, is

- A. 2 m
- B. 2.25 m
- C. 2.50 m
- D. 2.75 m
- E. 3.00 m.

Ans: E

8. Average annual rainfall at any station is the average of annual rainfall over a period of

- A. 7 years
- B. 14 years
- C. 21 years
- D. 28 years
- E. 35 years.

Ans: E

9. Time of concentration

- A. is the time taken, for precipitation
- B. duration of rainfall.
- C. time taken for all the ran off to reach the drain
- D. time taken for the storm water to travel from the most remote point to the drain.

Ans: D

10. Surge tanks are used

- A. for storage water
- B. to increase the velocity in a pipeline
- C. as overflow valves
- D. to guard against water hammer.

Ans: D

11. As per IS : 1172-1963, water required per head per day for average domestic purposes, is

- A. 50 litres
- B. 65 litres
- C. 85 litres
- D. 105 litres
- E. 135 litres.

Ans: E

12. In slow sand filters, the turbidity of raw water can be removed only up to

- A. 60 mg/litre
- B. 75 mg/litre
- C. 100 gm/litre
- D. 150 mg/litre.

Ans: A

13. Biochemical Oxygen Demand (B.O.D.) of safe drinking water must be

- A. nil
- B. 5
- C. 10
- D. 15
- E. 20

Ans: A

14. Acidity in water is caused due to

- A. Mineral acids
- B. Free CO₂
- C. Iron sulphate
- D. Aluminium sulphate
- E. All the above.

Ans: E

15. In distribution pipes, drain valves are provided at

- A. lower point
- B. higher point
- C. junction points
- D. any where.

Ans: A

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16. Corrosion of well pipes may not be reduced by

- A. reducing the draw down and the pumping rate
- B. reducing the flow velocity
- C. using thicker pipes
- D. using screens having larger area of openings
- E. none of these.

Ans: D

17. Asbestos pipes are

- A. light in weight and easy to transport
- B. highly resistant to corrosion
- C. high flexible to accommodate deflection upto 12°
- D. very much smooth and hydraulically efficient
- E. all the above.

Ans: E

18. The maximum depth of sedimentation tanks is limited to

- A. 2 m
- B. 3 m
- C. 4 m
- D. 5 m
- E. 6 m.

Ans: E

19. By boiling water, hardness can be removed if it is due to

- A. calcium sulphate
- B. magnesium sulphate
- C. calcium nitrate
- D. calcium bicarbonate
- E. none of these.

Ans: D

20. For determining the velocity of flow of underground water, the most commonly used non-empirical formula is

- A. Darcy's formula
- B. Slichter's formula
- C. Hazen's formula
- D. Lacy's formula.

Ans: A

21. The least thickness of class B cast iron (spun) pipe, is

- A. 7.2 mm
- B. 7.9 mm
- C. 8.6 mm
- D. 10 mm.

Ans: C

22. According to IS : 1172-1963, a minimum of 135 litres of water capita per day, is required for

- A. Boarding schools
- B. Nurses home and medical quarters
- C. hostels
- D. all the above.

Ans: D

23. The R.L. of ground water table on the sides of a valley is 1505 m whereas R.L. of the stream water is 1475 m. If 60° slope consists of pervious soil between R.L. 1485 m to 1500 m, the gravity spring may be expected at the point of reduced level

- A. 1500 m
- B. 1505 m
- C. 1475 m
- D. 1485 m.

Ans: D

24. The factor affecting per capita demand, is

- A. size of the city
- B. climatic conditions
- C. pressure in water mains
- D. cost of water
- E. all the above.

Ans: E

25. Pick up the incorrect statement from the following.

The underground sources of water, is from

- A. wells
- B. springs
- C. infiltration wells
- D. storage reservoirs
- E. none of these.

Ans: D

26. The specific retention is least in case of

- A. Clay
- B. Sand
- C. Silt

D. Coarse gravel.

Ans: D

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