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Daily Class – 8:30 PM

- Q: 1) On which of the following factors, does the population growth in a town normally depends?
- 1. Birth and depth rates
- 2. Migrations
- 3. Probabilistic growth
- 4. Logistic growth

Select the correct answer using the codes given below:

A: 1 and 4

B: 1 and 2

C: 1, 2 and 3

D: 2 and 3



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Daily Class - 8:30 PM

Q: 2) For water supply to a medium town, what is the daily variation factor?

A: 1.5

B: 2.5

C:3

D: 3.5



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Daily Class – 8:30 PM

Q: 3) Which one of the following factors has the maximum effect on figure of per capita demand of water supply of a given town?

A: Method of charging of the consumption

B: Quality of water

C: System of supply intermittent or

continuous

D: Industrial demand



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Daily Class – 8:30 PM

Q: 4) In which one of the following industries, the water requirement in kilo litres per unit of production is very high?

A: Paper industry

B: Steel industry

C: Sugar industry

D: Fertilizer industry



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Daily Class - 8:30 PM

Q: 5) Which one of the following would contain water with the maximum amount of turbidity?

A: Lakes

B: Oceans

C: Rivers

D: Wells



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Daily Class – 8:30 PM

Q: 6) If the methyl orange alkalinity of water equals or exceeds total hardness, all of the hardness is

A: Non-carbonate hardness

B: Carbonate hardness

C: Pseudo hardness

D: Negative non-carbonate hardness



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Daily Class – 8:30 PM

Q:7) Which of the following cations impart(s) pseudo-hardness to water?

A: Calcium only

B: Magnesium only

C: Calcium and magnesium

D: Sodium



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Daily Class – 8:30 PM

Q:8) The concentration of hardness producing cations may be estimated using which one the following?

A: Conductivity meter

B: pH meter

C: Spectrophotometer

D: Flame photometer



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Daily Class – 8:30 PM

Q: 9) A 12.5 ml sample of treated wastewater requires 187.5 ml of odour free distilled water to reduce the odour to a level that is just perceptible. What is the threshold odour number (TON) for the wastewater sample?

A: 0.07

B: 1.07

C:15

D: 16





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Daily Class - 8:30 PM

Q : 10) The most common constituents of alkalinity in natural water are measured by titrating the water sample with 0.02 N H_2SO_4 using

A: Eriochrome black T and Ferroin indicators

B: Ferroin and phenolphthalein indicators

C:Phenolphthalein and Methyl orange indicators

D : Methyl orange and Eriochrome black T indicators





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Daily Class – 8:30 PM

Q: 11) The concentration of chloride ions in a water sample is estimated by titration with

A : Sodium thiosulphate reagent using ferroin as an indicator

B: Ferrous ammonium sulphate reagent using soluble starch as an indicator

C: Silver nitrate reagent using potassium chromate as an indicator

D: Silver nitrative reagent using potassium dichromate as an indicator



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Daily Class – 8:30 PM

Q:12) Which one of the following compounds of nitrogen, when in excessive amounts in water, contributes to the illness known as infant methemoglobinemia?

A: Ammoniacal nitrogen

B: Albuminoid nitrogen

C: Nitrite

D: Nitrate



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Daily Class – 8:30 PM

Q: 13) The cleaning of slow sand filter is done by

A: Reversing the direction of flow of water

B: Passing air through the filter

C: Passing a solution of alum and lime through the filter

D: Scraping off top layers of sand and admitting water

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Daily Class – 8:30 PM

Q: 14) What is the correct sequence of formation of the following compounds during chlorination of water in which ammonia is present?

- 1. NCl_3
- $2. NH_2Cl$
- 3. $NHCl_2$

Select the correct answer using the codes given below:

A:1,2,3

B: 2, 3, 1

C: 3, 1, 2

D: 2, 1, 3



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Daily Class – 8:30 PM

Q: 15) Zero hardness of water is achieved by

A: Using lime soda process

B: Excess lime treatment

C: Ion exchange method

D: Using excess alum dosage



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Daily Class – 8:30 PM

Q: 16) Which of the following treatment(s) will be indicated for a rural water supply from a deep groundwater source?

- 1. Sedimentation
- 2. Aum dosage
- 3. Potassium permanganate dosing
- 4. Bleaching powder application

Select the correct answer using the codes given below:

A: 1, 2 and 3

B: 1, 2 and 4

C: 3 and 4

D: 4 alone



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Daily Class – 8:30 PM

Q: 17) In a water treatment plant, dissolved iron and manganese can be removed from the water by

A: Aeration

B: Aeration and coagulation

C: Aeration and flocculation

D: Aeration and sedimentation



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Daily Class – 8:30 PM

Q: 18) For proper slow mixing in the flocculator of a water treatment plant, the temporal mean velocity gradient G needs to be of the order of

A: 5 to $20s^{-1}$

B: 20 to $80s^{-1}$

C: 100 to $200s^{-1}$

D: 250 to $350s^{-1}$



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Daily Class – 8:30 PM

Q: 19) Air-binding in rapid sand filters is encountered when

A: There is excessive negative head

B: The water is subjected to prolonged aeration

C: The raw water contains dissolved gases

D: The filter bed comprises largely of coarse

sand



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Daily Class – 8:30 PM

Q: 20) Which one of the following filters will produce water of higher bacteriological quality?

A: Slow sand filter

B: Rapid sand filter

C: Pressure filter

D: Dual media filter



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Daily Class – 8:30 PM

Q: 21) The amount of bleaching powder containing 20% available chlorine needed to chlorinate an rural water supply covering a population of 10000 at 50 lpcd at the rate of 2 ppm is

A:1 kg

B:5 kg

C: 0.2 kg

D: 20 kg



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Daily Class – 8:30 PM

Q: 22) The purpose of re-carbonation after lime-soda process of water softening is the

A: Removal of excess soda from water

B: Removal of non-carbonate hardness

C: Recovery of lime

D: Conversion of precipitates to soluble

form



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Daily Class – 8:30 PM

Q: 23) If the specific gravity of a suspended particle is increased from 2 to 3, the settling velocity will

A: Not change

B: Get doubled

C: Get increased by 1.5 times

D: Get increased by 2.25 times



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Daily Class – 8:30 PM

Q: 24) Chlorides from water are removed by

A: Lime soda process

B: Reverse osmosis

C: Cation exchange process

D: Chemical coagulation



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Daily Class – 8:30 PM

Q: 25) In which treatment unit is "Schmutzdecke" formed?

A: Sedimentation tank

B: Rapid sand filter

C: Coagulation tank

D: Slow sand filter



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Daily Class - 8:30 PM

Q: 26) After which of the following water treatment units, the turbidity is maximum?

A: Chlorination

B: Primary sedimentation

C: Flocculation basin

D: Secondary sedimentation



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Daily Class – 8:30 PM

Q: 27) What is the predominating coagulation mechanism for raw water having high turbidity and high alkalinity?

A: Lonic layer compression

B: Adsorption and charge neutralization

C: Sweep coagulation

D: inter particle bridging





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Daily Class – 8:30 PM

Q: 28) In a water treatment, the optimum time of flocculation is usually given as 30 minutes. In case the time of flocculation is increased beyond this value, then the flocs will

A: Become heavy and settle down in flocculation itself

B: Entrap air and will float in the sedimentation tank

C: Break up ad defeat the purpose of flocculation

D: Stick to the paddles



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Daily Class – 8:30 PM

Q: 29) If the length dimension of a square filter bed increases to two times (While the rate of filtration remains unchanged), the amount of water filtered would become

A: 4 times

B: 2 times

C: 1 time

D: 16 times



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Daily Class – 8:30 PM

Q: 30) The design overflow rate of a sedimentation tank is chosen considering

A: Flow rate through the tank

B: Diameter of the particle intended to be

removed

C: Volume of the sedimentation tank

D: Detention time in the tank



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Daily Class – 8:30 PM

Q: 31) The purpose of re-carbonation after water softening by the lime-soda process is the

A: Removal of excess soda from the water

B: Removal of non-carbonate hardness in the water

C: Recovery of lime from the water

D: Conversion of precipitates to soluble forms in the water



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Daily Class - 8:30 PM

Q: 32) Which one of the following pairs is not correctly matched?

(a) Check valve	To check water flow in all directions
(b) Sluice valve	To control flow of water through pipe lines
(c) Air valve	To release the accumulated air
(d) Scour valve	To remove silt in a pipe line



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Daily Class – 8:30 PM

Q: 33) Service connection consists of

A: Ferrule, stopcock and gooseneck

B: Ferrule, check valve and gooseneck

C: Stopcock, meter and sluice valve

D : Sluice valve, check valve and meter



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Daily Class – 8:30 PM

Q: 34) In a pipe network of municipal water supply, a parallel pipe is sometime installed over a portion of the pipe mainly for

A: Reducing water hammer pressure

B: Decreasing the pumping power need

C: Increasing the head available at the node

D: Increasing the discharge



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Daily Class – 8:30 PM

Q : 35) For a waste, the 5-day BOD at 20° C is found to be 200 mg/l. For the same waste, 5-day BOD at 30° C will be

A: Less than 200 mg/l

B: More than 200 mg/l

C: 200 mg/l

D: Zero, as the bacteria cannot withstand

such a high temperature



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Daily Class – 8:30 PM

Q: 36) The ultimate BOD value of a waste

A: Increases with temperature

B: Decreases with temperature

C: Remains the same at all temperatures

D: Doubles with every 10°C rise in

temperature



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Daily Class – 8:30 PM

Q: 37) In which one of the following tests is the organic matter in the waste water used as food by micro-organisms?

A: BOD

B: Most probable number

C: COD

D: Chlorine demand



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Daily Class – 8:30 PM

Q: 38) The correct statement of comparison of ultimate BOD, COD, theoretical oxygen demand (ThOD) and 5-day BOD (BO D_5) is

$$A: BOD_u > COD > ThOD > BOD_5$$

$$\mathsf{B}:\mathsf{COD}>ThOD>BOD_u>BOD_5$$

$$C: ThOD > COD > BOD_u > BOD_5$$

$$D: COD > BOD_u > BOD_5 > ThOd$$



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Daily Class – 8:30 PM

Q: 39) Which one of the following pairs is not correctly matched?

A: BOD / COD = 0: Waste-water is toxic

B: BOD / COD \leq 0.2: Acclimatization of seed

is necessary

C: BOD / COD \leq 0.6 : Waste-water is non-

biodegradable

D: BOD / COD = 0; Waste-water is devoid of

organic matter



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Daily Class – 8:30 PM

- Q: 40) Which of the following chemical parameters are associated with the organic content of water?
- 1. Biological oxygen demand (BOD)
- 2. Chemical oxygen demand (COD)
- 3. Total organic carbon (TOC) and total oxygen demand (TOD)

A: 1 and 2 only

B: 1 and 3 only

C: 2 and 3 only

D: 1, 2 and 3

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Daily Class – 8:30 PM

- Q: 41) A polluted stream undergoes selfpurification in four distinct zones:
- 1. Zone of clear water
- 2. Zone of active decomposition
- 3. Zone of degradation
- 4. Zone of recovery

The correct sequence of these zones is

A: 3, 4, 2, 1

B: 2, 3, 4, 1

C: 2, 4, 3, 1

D: 3, 2, 4, 1



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Daily Class – 8:30 PM

Q: 42) Self-purification of running streams may be due to

A: Sedimentation, oxidation and coagulation

B: Dilution, sedimentation and oxidation

C: Dilution, sedimentation and coagulation

D: Dilution, oxidation and coagulation



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Daily Class - 8:30 PM

Q: 43) Sewage sickness occurs when

A: Sewage contains pathogenic organisms

B: Sewage enters the water supply system

C: Sewers get clogged due to accumulation of solids

D: Voids of soil get clogged due to continuous application of sewage on a piece of land

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Daily Class – 8:30 PM

Q: 44) Match List-I (standards of sewage effluents for the discharge in surface water sources with List-II (Tolerance limits) and select the correct answer:

List-I	List-II
A. BOD_{5} (mg/l)	1. 250
B. COD, (mg/l)	2. 30
C. Oil and grease, (mg/l)	3. 20
D. Total suspended solids (mg/l)	4. 10

A: 3, 4, 1, 2

C: 3, 1, 4, 2

B: 2, 4, 1, 3

D: 2, 1, 4, 3



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Daily Class – 8:30 PM

Q: 45) In which type of lakes, does a perfect ecological equilibrium among the producers, decomposers and consumer groups of organisms exist?

A: Senescent lakes

B: Mesotrophic lakes

C : Oligotrophic lakes

D: Eutrophic lakes



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Daily Class – 8:30 PM

Q: 46) Consider the following statements with reference to the mixing of industrial waste water with domestic waste water:

- 1. The industrial waste water can be mixed with domestic water when it has higher BOD
- 2. The industrial waste water can be mixed with domestic water when the pH value of industrial waste water is highly alkaline.

Which of the above statements is/are correct?

A: 1 only

B : 2 only

C: Both 1 and 2

D: Neither 1 nor 2



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Q: 47) In transition of sewers from smaller diameter sewers to larger diameter sewers, the continuity of sewers is maintained at the

A: Bottom of the concrete bed of sewers

B: Inverts of the sewers

C: Crowns of the sewers

D: Hydraulic gradients of the sewers



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Daily Class – 8:30 PM

Q: 48) Which one of the following would help prevent the escape of foul sewer gases from a water closet?

A: Air gap

B: Vent pipe

C: Gully trap

D: None of the above



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Daily Class – 8:30 PM

Q: 49) A sewer is commonly designed to attain self-cleansing velocity at

A: Peak hourly rate of flow

B: Average hourly rate of flow

C: Minimum hourly rate of flow

D: Sewer running half full



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Q: 50) Consider the following statements:

The basic difference between water pipes and sewer pipes is

- 1. In the material used for the pipes
- 2. In the pressure of the liquid flow
- 3. In the suspended solids they carry Which of the statements given above is/are correct?

A: 1 and 3

B : 1 only

C: 2 and 3

D: 1, 2 and 3



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Q: 51) Which one of the following statements is correct?

A combined sewer is one, which transports domestic sewage and

A: Storm water

B: Industrial water

C: Overhead flow

D: Industrial wastes and storm water



Result: SSC JE 2019

Selected Candidates For DV From EverExam 100 + SELECTION











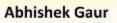












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