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DURATION
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Q :) Average rate of water consumption per head per day as per Indian standard is:

- (a) 100 litres**
- (b) 135 litres**
- (c) 165 litres**
- (d) 200 litres**

Q :) Which type of drainage system will collect the rainwater?

- (a) Primary**
- (b) Secondary**
- (c) Tertiary**
- (d) Primary and tertiary**

Q :) On peak hourly demand, what is the maximum daily consumption for the city which average daily consumption of $100,000 \text{ m}^3$?

(a) 140000

(b) 170000

(c) 200000

(d) 270000

Q :) For which of the following distribution mains is designed?

(a) Average daily demand

(b) Average peak demand

(c) Monthly peak demand

(d) Monthly hourly demand on maximum day

Q :) Which of the following represents the value of hourly variation factor?

(a) 1.2

(b) 1.5

(c) 1.7

(d) 2.5

Q :) Identify the method for the forecast of population of a town, wherein the percentage increase in population from decade, is assumed to remain constant.

- (a) Logistic curve method**
- (b) Incremental increase method**
- (c) Geometric method**
- (d) Arithmetic increase method**

Q :) A turbidimeter using blue cobalt plate is:

- (a) Jackson turbidimeter**
- (b) Baylis turbidimeter**
- (c) Tube turbidimeter**
- (d) Plate turbidimeter**

Q :) At lower pH, the contact period required for chlorination is

- (a) Lower**
- (b) Higher**
- (c) Same**
- (d) None of above**

Q :) The % of chlorine in fresh bleaching powder is about

(a) 10 to 20

(b) 20 to 25

(c) 3- to 35

(d) 40 to 50

Q :) On which scale the turbidity is measured?

- (a) Platinum scale**
- (b) Silica Cobalt scale**
- (c) Silica platinum scale**
- (d) Standard silica scale**

Q :) According to WHO, what is the permissible chloride content in drinking water?

(a) 0.001 mg/l

(b) 1 mg/l

(c) 200 mg/l

(d) 350 mg/l

Q :)Blue baby disease found infants is due to excessive _____ in drinking water.

- (a) Nitrates**
- (b) Sulphates**
- (c) Colour**
- (d) Carbonates**

Q :) According to IS 10500-2012, the permissible limit of total dissolved solids (TDS) in drinking water in the absence of alternative source is :

- (a) 1500 mg/l**
- (b) 2000 mg/l**
- (c) 1000 mg/l**
- (d) 500 mg/l**

Q :) As per IS 10500-2021, the acceptable limit for fluoride drinking water is:

(a) 0.5 mg/l

(b) 1.5 mg/l

(c) 2.5 mg/l

(d) 1.0 mg/l

Q :) In ground water, the muddy or cloudy appearance of clay or such other particles that presents hindrance to the path of light, is measured by:

- (a) Screening**
- (b) Nessler's tubes**
- (c) Jackson turbidity meter**
- (d) Steven turbidity meter**

Q :) The pathogens can be killed by:

- (a) Nitrification**
- (b) Chlorination**
- (c) Oxidation**
- (d) None of these**

Q :) The amount of standard soap solution required to obtain a permanent lather with a water sample of known volume with constant shanking determines the total hardness in :

- (a) Dr. Clark's process**
- (b) Hehner's process**
- (c) William process**
- (d) Durkheim's process**

Q :) In a sedimentation tank:

(a) Surface area is of more importance than capacity.

(b) Depth is more important than surface area.

(c) Capacity is more important than surface area.

(d) Surface area, capacity and depth are equally important.

Q :) 'Break point' in break point chlorination curve is a point for which the residual chlorine for an applied dose of chlorine is:

- (a) Maximum**
- (b) Minimum**
- (c) Zero**
- (d) In the stage when chlorination of water should be stopped.**

Q :) What is the rate of filtration in a slow sand filter used for water purification?

- (a) 300 to 600 litres/hours/m².**
- (b) 100 to 200 litres/hours/m².**
- (c) 500 to 6000 litres/hours/m².**
- (d) 3000 to 6000 litres/hours/m².**

Q :) Which of the following is an objective of aeration of water?

- (a) To decrease the dissolved oxygen content of the water.**
- (b) To remove tastes and odours from the gases produced due to organic decomposition**
- (c) To increase the carbon dioxide content of water.**
- (d) To preserve hydrogen sulphide.**

Q :) If the pH of the water is more than 8.5, then which of the following chloramines will be formed?

- (a) Only trichloramine**
- (b) Only monichloramine**
- (c) Only dichloramine**
- (d) Both monochloramine and dichloramine**

Q :) Which of the following is NOT used as a coagulant?

- (a) Coppears**
- (b) Sodium carbonate**
- (c) Alum**
- (d) Ferric chloride**

Q :) The processes of adding chemicals to induce aggregation and settling of finely divided suspended matter, colloidal substances etc. in water treatment plants is called

(a) Filtration

(b) Clarification

(c) Aeration

(d) Plain sedimentation



Result : **SSC JE 2019**

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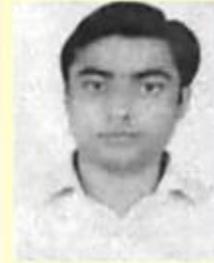
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