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As per IS:1172–1963, average domestic water consumption is

- (A) 85 lpcd
- (B) 95 lpcd
- (C) 115 lpcd
- (D) 135 lpcd

**ANSWER: (D) 135 lpcd**

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Maximum daily water demand = \_\_\_\_\_ x Average per capita daily demand

(A) 1.2

(B) 1.5

(C) 1.8

(D) 2.0

**ANSWER: (C) 1.8**

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Domestic water demand amounts \_\_\_\_\_ of total water demand

(A) 40 %

(B) 50 %

(C) 80 %

(D) 20 %

**ANSWER: (B) 50 %**

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Water quantity required to extinguish fire amounts \_\_\_\_\_ of total water demand of the city

(A) 10 to 15 %

(B) 15 to 20 %

(C) 20 to 25 %

(D) 5 to 10 %

**ANSWER: (D) 5 to 10 %**

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Freeman's formula to calculate fire demand is

(A)  $Q = 1135(P/5+10)$

(B)  $Q = 1135(P/10+5)$

(C)  $Q = 3182(P/5+10)$

(D)  $Q = 3182(P/10+5)$

**ANSWER: (A)  $Q = 1135(P/5+10)$**

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Out of the given population forecast methods, \_\_\_\_\_ gives comparatively accurate results

- (A) Geometrical increase method
- (B) Simple graphical method
- (C) Arithmetical increase method
- (D) Comparative graph method

**ANSWER: (D) Comparative graph method**

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Burton's and Buston's formula to determine fire demand are respectively

(A)  $Q = 900\sqrt{VP}$  and  $Q = 5663\sqrt{VP}$

(B)  $Q = 5663\sqrt{VP}$  and  $Q = 900\sqrt{VP}$

(C)  $Q = 500\sqrt{VP}$  and  $Q = 9663\sqrt{VP}$

(D)  $Q = 3182\sqrt{VP}$  and  $Q = 900\sqrt{VP}$

**ANSWER: (A)  $Q = 900\sqrt{VP}$  and  $Q = 5663\sqrt{VP}$**

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Pipe mains carrying water from the source to the reservoir are designed to carry

- (A) Maximum hourly demand of maximum daily
- (B) Maximum daily demand
- (C) Average daily demand
- (D) Average hourly demand

**ANSWER: (B) Maximum daily demand**

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Fire demand  $Q$  in lit/min as per 'National board of fire writers formula' is

(A)  $Q = 4637\sqrt{VP}(1 - 0.1\sqrt{VP})$

(B)  $Q = 4637\sqrt{VP}(1 - 0.01\sqrt{VP})$

(C)  $Q = 3112\sqrt{VP}(1 - 0.01\sqrt{VP})$

(D)  $Q = 3112\sqrt{VP}(1 - 0.1\sqrt{VP})$

**ANSWER: (B)  $Q = 4637\sqrt{VP}(1 - 0.01\sqrt{VP})$**

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Tintometer is used to conduct \_\_\_\_\_ of water sample

- (A) Temperature test
- (B) Colour test
- (C) Turbidity test
- (D) Odour test

**ANSWER: (B) Colour test**

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Odour and taste of the water sample can be determined using

- (A) Nephelometer
- (B) Odometer
- (C) Odoscope
- (D) Osmoscope

**ANSWER: (D) Osmoscope**

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Permissible turbidity in water sample is upto

- (A) 5 ppm
- (B) 10 ppm
- (C) 15 ppm
- (D) 25 ppm

**ANSWER: (A) 5 ppm**

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Temperature of the water to be supplied should be between

- (A) 0° C to 10° C
- (B) 10° C to 20° C
- (C) 20° C to 30° C
- (D) 30° C to 40° C

**ANSWER: (B) 10° C to 20° C**

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Colour of the water sample can be measured on

- (A) Platinum Chloride scale
- (B) Cobalt scale
- (C) Both (A) and (B)
- (D) None of the above

**ANSWER: (C) Both (A) and (B)**

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In odour test, the mixture giving first detectable odour is taken as

- (A) Threshold odour
- (B) pO value
- (C) Limiting dilution number
- (D) Odour intensity

**ANSWER: (A) Threshold odour**

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Technically, turbidity is a measure of

- (A) Murkiness of water
- (B) Resistance to passage of light through water
- (C) Presence of colloidal matter in water
- (D) Aesthetics of water

**ANSWER: (B) Resistance to passage of light through water**

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**Turbidity can be measured by**

- (A) Jackson's turbidimeter**
- (B) Bayli's turbidimeter**
- (C) Nephelometer**
- (D) All of the above**

**ANSWER: (D) All of the above**

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**In colour test of water, for domestic supply, number on cobalt scale should not exceed**

**(A) 20**

**(B) 25**

**(C) 100**

**(D) 150**

**ANSWER: (A) 20**

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Permissible limit for total solids in drinking water is

(A) 250 ppm

(B) 350 ppm

(C) 500 ppm

(D) 750 ppm

**ANSWER: (C) 500 ppm**

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\_\_\_\_\_ causes acidity in water

- (A) Carbon dioxide
- (B) Oxygen
- (C) Hydrogen
- (D) Nitrogen

**ANSWER: (A) Carbon dioxide**

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To determine total hardness of water, following method is used

- (A) Clark's method
- (B) Hehner's method
- (C) Versenate method
- (D) All of these

**ANSWER: (D) All of these**

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Presence of phenolic compound in water should not exceed

- (A) 1 ppm
- (B) 0.001 ppm
- (C) 0.01 ppm
- (D) 0.1 ppm

**ANSWER: (B) 0.001 ppm**

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pH of water can be measured by

- (A) Colorimetric test
- (B) Electrometric test
- (C) Both (A) and (B)
- (D) None of the above

**ANSWER: (C) Both (A) and (B)**

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EDTA solution is used in determination of

(A) Dissolved oxygen

(B) Hardness

(C) Iron

(D) Chlorine

**ANSWER: (B) Hardness**

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Phenolic compounds in water can be determined by

- (A) Amino antipyring method
- (B) Gibb's colorimetric method
- (C) Nessler's method
- (D) Both (A) and (B)

**ANSWER: (D) Both (A) and (B)**

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Blue baby disease (methemoglobinemia) is caused in infants due to presence of \_\_\_\_\_ in water

- (A) Nitrites
- (B) Albuminoid nitrogen
- (C) Nitrates
- (D) Ammonium

**ANSWER: (C) Nitrates**

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**Winkler's method is used to determine**

- (A) Hydrogen**
- (B) Dissolved oxygen**
- (C) Nitrogen**
- (D) Albuminoid nitrogen**

**ANSWER: (B) Dissolved oxygen**

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**Pollution by faecal contamination of water is indicated by**

- (A) Clostridium Welchii**
- (B) Sporing bacteria**
- (C) E-coli**
- (D) None of the above**

**ANSWER: (C) E-coli**

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**Bacteria that can survive temperature range of 40° C to 60° C are called**

- (A) Psychrophilic bacteria**
- (B) Mesophilic bacteria**
- (C) Thermophilic bacteria**
- (D) Pyrophilic bacteria**

**ANSWER: (C) Thermophilic bacteria**

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**Bacteria that can live with or without oxygen are known as**

- (A) Aerobic bacteria**
- (B) Anaerobic bacteria**
- (C) Mesophilic bacteria**
- (D) Facultative bacteria**

**ANSWER: (D) Facultative bacteria**

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**Springing and non springing bacteria occur in**

**(A) Soil**

**(B) Water**

**(C) Air**

**(D) Sewage**

**ANSWER: (A) Soil**

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Coliform test having 3 stages viz. presumptive test, confirmed test and completed test is

- (A) Membrane filter technique
- (B) Multiple tube fermentation technique
- (C) MPN technique
- (D) None of the above

**ANSWER: (B) Multiple tube fermentation technique**

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**Typhoid fever is caused by**

- (A) Salmonella Typhi**
- (B) Salmonella Paratyphi A**
- (C) Streptococci**
- (D) All of these**

**ANSWER: (A) Salmonella Typhi**

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**In bacterial test of water, MPN should be**

- (A) Less than 1 per 100 ml**
- (B) Less than 1 per 50 ml**
- (C) Less than 1 per 20 ml**
- (D) Less than 1 per 10 ml**

**ANSWER: (A) Less than 1 per 100 ml**

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\_\_\_\_\_ produce slimy reddish deposits in water tanks

- (A) Slime forming bacteria
- (B) Iron bacteria
- (C) Sulphur bacteria
- (D) Nitrogen bacteria

**ANSWER: (B) Iron bacteria**

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**Worms that may occur in water are**

- (A) Nematodos**
- (B) Flat worms**
- (C) Rotifers**
- (D) All of these**

**ANSWER: (D) All of these**

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Screening unit in water treatment may have

- (A) Coarse screen
- (B) Fine screen
- (C) Fine screen followed by coarse screen
- (D) Coarse screen followed by fine screen

**ANSWER: (D) Coarse screen followed by fine screen**

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**Micro strainers are used at**

- (A) Intake point**
- (B) Treatment plant, before sedimentation**
- (C) Upstream of rapid or slow sand filter**
- (D) Downstream of bar screen**

**ANSWER: (C) Upstream of rapid or slow sand filter**

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Maximum head loss through clogged racks and screens is

- (A) 30 cm
- (B) 50 cm
- (C) 80 cm
- (D) 100 cm

**ANSWER: (C) 80 cm**

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Coarse screens have their bar spacing as

- (A) 10 to 20 mm c/c
- (B) 25 to 50 mm c/c
- (C) 50 to 75 mm c/c
- (D) 75 to 100 mm c/c

**ANSWER: (D) 75 to 100 mm c/c**

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Aeration reduces \_\_\_\_\_ from water because of which corrosiveness of water decreases and pH of water increase

- (A) Carbon monoxide
- (B) Carbon dioxide
- (C) Hydrogen sulphide
- (D) Ammonia

**ANSWER: (B) Carbon dioxide**

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**Simplest free fall type aerator is**

- (A) Cascade aerator**
- (B) Inclined apron aerator**
- (C) Slat tray aerator**
- (D) Gravel bed aerator**

**ANSWER: (A) Cascade aerator**

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## Compressed air diffusion in closed pipelines

- (A) Increase dissolved oxygen
- (B) Remove taste and odour
- (C) Do NOT remove carbon dioxide
- (D) All of these

**ANSWER: (D) All of these**

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**Aeration may add more oxygen to water thus rendering it**

- (A) More corrosive**
- (B) Tasteless**
- (C) Free of Fe and Mn**
- (D) None of the above**

**ANSWER: (A) More corrosive**

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\_\_\_\_\_ which causes odour problem in water is removed  
by aeration

- (A) Hydrogen sulphide
- (B) Carbon monoxide
- (C) Carbon dioxide
- (D) Sulphur dioxide

**ANSWER: (A) Hydrogen sulphide**

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In sedimentation tank, velocity of water is maintained at

- (A) 50 to 70 cm/min
- (B) 50 to 70 cm/hour
- (C) 15 to 30 cm/hour
- (D) 15 to 30 cm/min

**ANSWER: (D) 15 to 30 cm/min**

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Length of rectangular tank should not be more than

(A)  $0.5B$

(B)  $B$

(C)  $2B$

(D)  $4B$

**ANSWER: (D)  $4B$**

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Alum as coagulant in sedimentation process works best at pH of

- (A) 2 - 3
- (B) 3 - 5
- (C) 6 - 8
- (D) 8 - 12

**ANSWER: (C) 6 - 8**

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In a sedimentation tank, to increase settling velocity of particle

- (A) Depth should be reduced
- (B) Depth should be increased
- (C) Surface area of the tank should be increased
- (D) Surface area of tank should be decreased

**ANSWER: (C) Surface area of the tank should be increased**

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In comparison with sedimentation with coagulation, plain sedimentation has

- (A) More detention time, more overflow rate
- (B) Less detention time, more overflow rate
- (C) Equal detention time, more overflow rate
- (D) More detention time, less overflow rate

**ANSWER: (D) More detention time, less overflow rate**

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Requirement of alum increases with

- (A) Increase in turbidity of water
- (B) Decrease in turbidity of water
- (C) Decrease in temperature
- (D) Both (A) and (C)

**ANSWER: (D) Both (A) and (C)**

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Type III settling is also known as

- (A) Discrete settling
- (B) Compression settling
- (C) Hindered settling
- (D) Zone settling

**ANSWER: (D) Zone settling**

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In water treatment, following types of settling is encountered

- (A) Type I only
- (B) Type I and II
- (C) Type I, II and III
- (D) Type IV only

**ANSWER: (B) Type I and II**

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**Detention time for plain sedimentation tank is**

- (A) 2 to 4 hours
- (B) 4 to 8 hours
- (C) 8 to 12 hours
- (D) 12 to 14 hours

**ANSWER: (B) 4 to 8 hours**

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In the process of filtration, which of the following actions take place?

- (A) Mechanical straining and electrolytic action
- (B) Mechanical straining and sedimentation
- (C) Mechanical straining, sedimentation and biological action
- (D) Mechanical straining, sedimentation, biological action and electrolytic action

**ANSWER: (D) Mechanical straining, sedimentation, biological action and electrolytic action**

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In the top layer of sand in filter, a layer of algae, bacteria and protozoa form known as

- (A) Bio layer
- (B) Bio mat
- (C) Schmutzdecke
- (D) Garnet layer

**ANSWER: (C) Schmutzdecke**

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Effective size of sand for slow sand filter and rapid sand filter

- (A) 0.2 to 0.3 mm and 0.8 and 1.0 mm respectively
- (B) 0.2 to 0.3 mm and 0.45 to 0.7 mm respectively
- (C) 0.4 to 0.6 mm and 0.8 to 1.0 mm respectively
- (D) 0.25 to 0.45 mm and 0.9 to 1.1 mm respectively

**ANSWER: (B) 0.2 to 0.3 mm and 0.45 to 0.7 mm**

**respectively**

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**Uniformity coefficient of sand used in slow sand filter is**

**(A) 3.0 to 5.0**

**(B) 1.7 to 1.9**

**(C) 1.1 to 1.3**

**(D) 1.5 to 1.9**

**ANSWER: (A) 3.0 to 5.0**

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In slow sand filter, media is cleaned by

- (A) Replacing complete media by new media
- (B) Scrapping off sand layers
- (C) Backwashing
- (D) Placing fresh media over old media

**ANSWER: (B) Scrapping off sand layers**

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Filtration rate in slow sand filter is

- (A) 1000 to 2000 liter/hour/sq.m
- (B) 500 to 1000 liter/hour/sq.m
- (C) 300 to 600 liter/hour/sq.m
- (D) 100 to 200 liter/hour/sq.m

**ANSWER: (D) 100 to 200 liter/hour/sq.m**

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**Under normal conditions, slow sand filter removes bacteria about**

(A) 70 to 80 %

(B) 98 to 99 %

(C) 50 to 60 %

(D) 60 to 70 %

**ANSWER: (B) 98 to 99 %**

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Compared to rapid sand filter, slow sand filter has

- (A) High filtration rate, high bacteria removal efficiency
- (B) Low filtration rate, high bacteria removal efficiency
- (C) High filtration rate, low bacteria removal efficiency
- (D) Low filtration rate, low bacteria removal efficiency

**ANSWER: (B) Low filtration rate, high bacteria removal efficiency**

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Slow sand filter is suitable where

- (A) Population is less, large area is available
- (B) Population is high, initial cost is chief concern
- (C) Skilled labour is available
- (D) Less land is available

**ANSWER: (A) Population is less, large area is available**

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**Uniformity coefficient of sand used in rapid sand filter is**

- (A) 1.3 to 1.7**
- (B) 2.0 to 2.5**
- (C) 2.1 to 2.3**
- (D) 1.1 to 1.3**

**ANSWER: (A) 1.3 to 1.7**

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Rate of filtration in rapid sand filter is

- (A) 1000 to 2000 liter/hour/sq.m
- (B) 500 to 1000 liter/hour/sq.m
- (C) 3000 to 6000 liter/hour/sq.m
- (D) 1500 to 3000 liter/hour/sq.m

**ANSWER: (C) 3000 to 6000 liter/hour/sq.m**

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As compared with slow sand filter, rapid sand filter

- (A) Requires large area, has higher filtration rate
- (B) Requires small area, has lower filtration rate
- (C) Requires small area, has higher filtration rate
- (D) Requires large area, has lower filtration rate

**ANSWER: (C) Requires small area, has higher filtration rate**

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Amount of wash water required for rapid sand filter from its filtered water is

- (A) 12 %
- (B) 10%
- (C) 2 to 4%
- (D) 8 to 10 %

**ANSWER: (C) 2 to 4%**

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**Insufficient washing of sand grains of rapid sand filter leads to**

- (A) Formation of mud balls**
- (B) Air binding**
- (C) Sand boils**
- (D) Sand leakage**

**ANSWER: (A) Formation of mud balls**

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Method of cleaning media of rapid sand filter is

- (A) Backwashing
- (B) Scrapping off sand
- (C) Replacement of media
- (D) Addition of new media over old media

**ANSWER: (A) Backwashing**

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**Sand leakage trouble in filter can be avoided by**

- (A) Providing gravel above fine sand**
- (B) Properly proportioning the media**
- (C) Both (A) and (B)**
- (D) None of the above**

**ANSWER: (B) Properly proportioning the media**

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**Excessive negative head in rapid sand filter leads to**

- (A) Formation of mud balls**
- (B) Air binding**
- (C) Clogging of filter bed**
- (D) Sand jetting**

**ANSWER: (B) Air binding**

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**Pressure filters have filtration rate**

- (A) Equal to rapid sand filter and more than slow sand filter**
- (B) Less than rapid sand filter and slow sand filter**
- (C) More than rapid sand filter and slow sand filter**
- (D) Less than rapid sand filter and more than slow sand filter**

**ANSWER: (C) More than rapid sand filter and slow sand filter**

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**Disinfection takes place by following mechanism**

- (A) Damage to cell wall of microorganism**
- (B) Alteration of cell permeability or colloidal nature of cell protoplasm**
- (C) Inactivation of critical enzyme system of microorganism**
- (D) All of the above**

**ANSWER: (D) All of the above**

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Following is NOT a chemical method of disinfection

- (A) Metal ion disinfection
- (B) Alkali and acid disinfection
- (C) Disinfection by surfactants
- (D) Irradiation by ultraviolet light

**ANSWER: (D) Irradiation by ultraviolet light**

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For private buildings, institutions and swimming pools, method of disinfection adopted is

- (A) Excess lime treatment
- (B) Ultraviolet irradiation
- (C) Potassium permanganate treatment
- (D) Disinfection by heat

**ANSWER: (B) Ultraviolet irradiation**

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**Bleaching powder contains chlorine at about**

- (A) 5 to 10 %
- (B) 10 to 20 %
- (C) 30 to 40 %
- (D) 70 to 80 %

**ANSWER: (C) 30 to 40 %**

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Chlorine can be applied as a disinfectant in form of

- (A) Hypochlorites
- (B) Chloramines
- (C) Free chlorine gas
- (D) Any of (A),(B) or (C)

**ANSWER: (D) Any of (A),(B) or (C)**

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Free residual chlorination is also known as

- (A) Double chlorination
- (B) Prechlorination
- (C) Break point chlorination
- (D) Post chlorination

**ANSWER: (C) Break point chlorination**

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**Dechlorination is done by**

- (A) Sodium thio-sulphate**
- (B) Sodium chloride**
- (C) Sodium sulphate**
- (D) All of the above**

**ANSWER: (A) Sodium thio-sulphate**

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**Residual chlorine in water can be determined using**

- (A) Orthotolidine test**
- (B) Heffner's test**
- (C) Winkler's test**
- (D) Any of (A),(B) or (C)**

**ANSWER: (A) Orthotolidine test**

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Disinfection efficiency of chlorine is best at \_\_\_\_\_ pH and \_\_\_\_\_ temperature of water

- (A) low, high
- (B) high, high
- (C) high, low
- (D) low, low

**ANSWER: (A) low, high**

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Acceptable limit for hardness of water in public water supplies is

(A) 350 ppm

(B) 300 ppm

(C) 250 ppm

(D) 200 ppm

**ANSWER: (D) 200 ppm**

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Temporary hardness and permanent hardness can be removed from water by \_\_\_\_\_ and \_\_\_\_\_ respectively

- (A) boiling, addition of lime
- (B) addition of lime, lime soda process
- (C) boiling, silver nitrate process
- (D) addition of lime, boiling

**ANSWER: (B) addition of lime, lime soda process**

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**Zeolite method of water softening is**

- (A) Suitable for highly turbid water**
- (B) Sludge forming process**
- (C) Suitable where water quality fluctuates**
- (D) Suitable for acidic waters**

**ANSWER: (C) Suitable where water quality fluctuates**

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**Zeolite bed can be regenerated using**

- (A) Sodium chloride solution**
- (B) Sodium fluoride solution**
- (C) Magnesium chloride solution**
- (D) Potassium chloride solution**

**ANSWER: (A) Sodium chloride solution**

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Which of the following method of water softening is most economical?

- (A) Zeolite method
- (B) Lime soda method
- (C) De-ionisation method
- (D) All are equal in terms of economy

**ANSWER: (B) Lime soda method**

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Zero hardness water can be rendered using

- (A) Boiling method
- (B) Zeolite method
- (C) Lime soda method
- (D) All of the above

**ANSWER: (B) Zeolite method**

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## Lime soda process

- (A) is suitable for turbid, acidic water
- (B) has bactericidal effect
- (C) is cost effective
- (D) All of the above

**ANSWER: (D) All of the above**

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\_\_\_\_\_ requires recarbonation of water after it has taken place

- (A) Zeolite water softening process
- (B) Lime soda water softening process
- (C) De-ionization water softening process
- (D) All of the above

**ANSWER: (B) Lime soda water softening process**

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**Lime soda process has major disadvantage that**

- (A) It decreases pH of water**
- (B) It creates sludge precipitate**
- (C) It can not be used for very hard water**
- (D) None of the above**

**ANSWER: (B) It creates sludge precipitate**

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**Colour, taste and odour of water can be removed by**

- (A) Use of chlorine dioxide**
- (B) Ozonization**
- (C) Treatment by activated carbon**
- (D) All of the above**

**ANSWER: (D) All of the above**

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**Copper sulphate is used to**

- (A) Remove colour and odour of water**
- (B) Control growth of algae in water**
- (C) Remove hardness**
- (D) Only (A) and (B)**

**ANSWER: (D) Only (A) and (B)**

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Fluorides should be present in water at concentration of

(A) 0.1 to 0.5 ppm

(B) 0.5 to 0.7 ppm

(C) 2.0 to 3.5 ppm

(D) 0.5 to 1.5 ppm

**ANSWER: (D) 0.5 to 1.5 ppm**

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Fluoride presence in water at concentrations of about 3 ppm lead to

- (A) Crippling fluorosis
- (B) Mottling of teeth
- (C) Dental caries
- (D) None of the above

**ANSWER: (B) Mottling of teeth**

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To carry out fluoridation, compound used is

- (A) Sodium fluoride
- (B) Sodium silico fluoride
- (C) Hydrofluosilicic acid
- (D) All of the above

**ANSWER: (D) All of the above**

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**Activated carbon can**

- (A) Remove colour, taste and odour**
- (B) Remove bacteria**
- (C) Remove hardness**
- (D) All of the above**

**ANSWER: (A) Remove colour, taste and odour**

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**Desalination is done by**

- (A) Reverse osmosis**
- (B) Addition of bone charcoal**
- (C) Addition of lime**
- (D) All of the above**

**ANSWER: (A) Reverse osmosis**

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**In terms of economy, best method of desalination is**

- (A) Distillation by multistage evaporator**
- (B) Freezing**
- (C) Solar evaporation**
- (D) Electrodialysis**

**ANSWER: (C) Solar evaporation**

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Iron and manganese are removed from water by

- (A) Aeration followed by sedimentation and filtration
- (B) Activated carbon
- (C) Addition of lime
- (D) None of the above

**ANSWER: (A) Aeration followed by sedimentation and filtration**

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Valve used in pipelines that allows water to flow in one direction only is called as

(A) Air relief valve

(B) Check valve

(C) Scour valve

(D) Pressure relief valve

**ANSWER: (B) Check valve**

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Function of pressure relief valve is to

- (A) Prevent pipe from air pressure damage
- (B) Prevent pipe from water pressure damage
- (C) Control flow of water from pipe
- (D) None of the above

**ANSWER: (B) Prevent pipe from water pressure damage**

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Function of gate valve or sluice valve is to

- (A) Control flow of water
- (B) Shut down flow of water
- (C) Divide water mains into suitable sections
- (D) All of the above

**ANSWER: (D) All of the above**

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Scour valves are used to

- (A) Prevent scouring action of water in pipe
- (B) Remove sand and silt from pipe ends
- (C) Remove excess water pressure from pipe
- (D) Control head loss in pipes

**ANSWER: (B) Remove sand and silt from pipe ends**

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When water flowing with high velocity inside a pipe encounters sudden closure of valve, effect that may occur is known as

- (A) Water blast
- (B) Water hammer
- (C) Pipe burst
- (D) Overburden

**ANSWER: (B) Water hammer**

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Which of the following factor is not responsible for pipe corrosion?

- (A) Composition of pipe material
- (B) Soil bacteria
- (C) Temperature
- (D) Water pressure

**ANSWER: (D) Water pressure**

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Pipe corrosion can be prevented using

- (A) Cathodic protection
- (B) Proper selection of pipe material
- (C) Providing protective coating on pipe
- (D) All of the above

**ANSWER: (D) All of the above**

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**Altitude valves are installed at**

- (A) Places where pipelines are at high altitude**
- (B) Lines which supply water to ESR or stand pipe**
- (C) Locations where higher heads are required**
- (D) Grid iron system**

**ANSWER: (B) Lines which supply water to ESR or stand pipe**

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Head loss in pipes can be calculated using

- (A) Manning's formula
- (B) Hazen - William's formula
- (C) Darcy – Weisbach formula
- (D) All of the above

**ANSWER: (D) All of the above**

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\_\_\_\_\_ is the most economical water distribution system

- (A) Pumping system
- (B) Gravity system
- (C) Pumping and gravity combined system
- (D) Both (B) and (C)

**ANSWER: (B) Gravity system**

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**Distribution system that can be easily expanded is**

- (A) Grid iron system**
- (B) Radial system**
- (C) Ring system**
- (D) Dead end system**

**ANSWER: (D) Dead end system**

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Ring system of water distribution is suitable for

- (A) Well planned city
- (B) Cities growing in haphazard manner
- (C) Small cities
- (D) Large cities

**ANSWER: (A) Well planned city**

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Scour valves are needed at large extent in

- (A) Grid iron system
- (B) Dead end system
- (C) Ring system
- (D) Radial system

**ANSWER: (B) Dead end system**

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\_\_\_\_\_ is also known as reticulation system

- (A) Ring system
- (B) Radial system
- (C) Grid iron system
- (D) Dead end system

**ANSWER: (C) Grid iron system**

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In intermittent system of water supply,

- (A) Tendency of domestic storage of water increases
- (B) Pollution in supplies may take place
- (C) More staff is required for operations
- (D) All of the above

**ANSWER: (D) All of the above**

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In which type of distribution system, area is divided into district and each district has its own ESR?

- (A) Grid iron system
- (B) Radial system
- (C) Dead end system
- (D) Ring system

**ANSWER: (B) Radial system**

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In case of fire outbreak, following system may fail

- (A) Gravity system
- (B) Combined gravity and pumping system
- (C) Pumping system
- (D) None of the above

**ANSWER: (C) Pumping system**

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## Continuous water supply system

- (A) Provides fresh water at all the time
- (B) Leads to water wastage in more amounts
- (C) Eliminates need of domestic storage of water
- (D) All of the above

**ANSWER: (D) All of the above**

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