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180742/170742/30742

4th Sem / CIVIL

**Subject : Water Supply & W.W. Engg./Public
Health Engg.**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note : Multiple choice types questions. All questions are compulsory. (10x1=10)

- Q.1 The process used for the removal of dissolved carbon dioxide from the supply water is. (CO-4)
a) Coagulation b) Agitation
c) Aeration d) Sedimentation
- Q.2 The type of joint generally used in cast iron pipes is (CO-5)
a) Flanged joint
b) Flexible joint
c) Dresser coupling joint
d) Socket & spigot joint
- Q.3 For joining the sewers at different levels the devices or appliances used is called. (CO-7)
a) Drop manhole b) Man-hole
c) Both A Or B d) None of these
- Q.4 Testing of sewer line may be done by (CO-10)
a) Boning Rod b) Straight road
c) Rolling Ball d) All of above
- Q.5 The dissolved oxygen content in sewage can be determined by (CO-11)

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- a) Potentiometer b) Colour of sewage
c) Winkler's method d) Odour of seware.
- Q.6 The process of self purification depends upon(CO-12)
a) Sunlight
b) Velocity of water
c) Temperature of sewage
d) All of above
- Q.7 In the oxidation ditch, the excess studge is taken to (CO-13)
a) Anaerobic digester b) Aerobic digester
c) Drying beds d) Incinerator
- Q.8 the colour of water is measured on. (CO-3)
a) Turbidity scale d) Silical scale
c) Platinum cobalt scale d) Threshold scale
- Q.9 Per capita consumption decreases when. (CO-2)
a) Use of metering system is adopted
b) Hot climate persists is supplied
c) Good quality water is
d) All the above
- Q.10 Pump commonly used for lifting water in water supply mains is : (CO-5)
a) Axial flow pump b) Centrifugal pump
c) Reciprocating pump d) Rotary type pump

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Give examples of suspended impurities. (CO-3)
- Q.12 Back filling of trench is done by _____.(CO-10)

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- Q.13 The chamber used to collect the rain water free from suspended particles is called. (CO-9)
- Q.14 The system in which different types of waste collected manually is called _____. (CO-9)
- Q.15 The velocity of flow of water in a sedimentation tank may normally be kept between _____. (CO-4)
- Q.16 The safe and most reliable system in distribution of water is _____. (CO-5)
- Q.17 Air relief valves in water supply pipe lines are provided at _____. (CO-9)
- Q.18 DWF means _____. (CO-9)
- Q.19 the bacteria which can flourish in the absence of oxygen is called _____. (CO-12)
- Q.20 _____ sludge is a sludge which remains for a larger period in the tank before removal. (Raw/Septic) (CO-13)

SECTION-C

Note: Short answer type questions. Attempt any Twelve question put of fifteen questions. (12x5=60)

- Q.21 Write a short note on continuous system. (CO-5)
- Q.22 What do you mean by Coagulants? Give examples? (CO-4)
- Q.23 How PH-Value of water is determined by calorimetric method (CO-3)
- Q.24 What are the factors responsible for the losses of water? (CO-2)
- Q.25 what is Hydrological cycle? (CO-1)

- Q.26 What are the requirement of good building drainage? (CO-14)
- Q.27 Write the factors which affect self-purification of streams. (CO-13)
- Q.28 Explain the concept of B.O.D. and its importance. (CO-12)
- Q.29 Write the comparison between water carriage system and conservancy system. (CO-9)
- Q.30 How do we mark the alignment of pipes? (CO-6)
- Q.31 What are the points which should be kept in mind in order to maintain a building drainage system. (CO-14)
- Q.32 Write short note on sludge disposal. (CO-13)
- Q.33 What do you understand by Population Forecasting? (CO-2)
- Q.34 What are the advantages of Radial system? (CO-4)
- Q.35 What is sedimentation? None its various types. (CO-4)

SECTION-D

Note: Long answer type questions. Attempt any Two question out of three questions. (2x10=20)

- Q.36 Explain laying and Jointing of sewers. (CO-10)
- Q.37 Explain different categories of variation in rate of demand. (CO-3)
- Q.38 What is chlorination? Explain its types. (CO-4)