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**4th Sem/Branch : Civil**  
**Subject : Water Supply and Waste Water Engineering**

Time : 3 Hrs. M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The average domestic consumption in india per person per day in liters is .  
a) 150                  b) 135  
c) 180                  d) 200
- Q.2 The process of supporting the sides of trenches by wooden member is termed as \_\_\_\_\_ of trenches.  
a) Excavation            b) Timbering  
c) Setting out            d) Bedding
- Q.3 The process used for the removal of dissolved carbon dioxide from the supply water is.  
a) Coagulation            b) Agitation  
c) Aeration              d) Sedimentation
- Q.4 The degree of turbidity can be measured by  
a) Turbidity rod            b) Turbid meter  
c) both (a)&(b)            d) None of these

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- Q.5 For joining the sewers at different levels the devices or appliances used is called.  
a) Drop manhole            b) Man-hole  
c) Both (a)&(b)            d) None of these
- Q.6 The process of self purification depends upon.  
a) sunlight  
b) Velocity of water  
c) Temperature of sewage  
d) All of above

**SECTION-B**

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 What is the design period?
- Q.8 The chamber used to collect the rain water free from suspended particles is called.
- Q.9 The velocity of flow of water in a sedimentation tank may normally be kept between \_\_\_\_\_.
- Q.10 Sluice valve is also known as gate valve (True/False)
- Q.11 The process of placing the excavated soil back into the trench all round the pipes is called \_\_\_\_\_.
- Q.12 DEF means \_\_\_\_\_.

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## **SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

Q.13 What is hydrological cycle.

Q.14 Explain variation in rate of demand.

Q.15 What are requirements of pure water.

Q.16 Explain sedimentation and its type.

Q.17 Write a short note on continuous system.

Q.18 Explain excavation of trench and what are precaution during excavation.

Q.19 What are differences between water carriage and conservancy system.

Q.20 Explain construction of drop manhole and give its function.

Q.21 Explain air test.

Q.22 Explain traps and its classification.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions.  $(2 \times 8 = 16)$

Q.23 Explain water supply fixture and their installation.

Q.24 What are the different comparisons between combined system and separate system.

Q.25 Explain dead end and system of water supply distribution with sketch and also give its advantages and disadvantages.