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Roll No.

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4th Sem.

Branch : Civil, Brick Tech, Constr, Mgmt., Highway Engg.
Subject : Water Supply & Waste Water Engineering
Public Health Engg.

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (10x1=10)

Q.1 The water which is not chemically pure but does not contain any harmful to human health is known as (CO1)

- a) Pure water
- b) Impure water
- c) Wholesome water
- d) Underground water

Q.2 Per capital water demand is calculated in litres (CO2)

- a) Per person per day
- b) Per person per month
- c) Fire & Public use demand
- d) None of the above

Q.3 The turbidity of water is caused due to (CO3)

- a) Clay
- b) Slit
- c) Finely divided organic material
- d) All of these

Q.4 Pathogenic bacteria (CO3)

- a) Are harmless
- b) Cause diseases
- c) Are called coliform organisms
- d) Are visible to the naked eye

Q.5 The dosage of coagulant depends upon (CO4)

- a) Turbidity
- b) PH value
- c) Colour
- d) All of the above are correct

Q.6 G.I. pipe has a coating of (CO5)

- a) Zinc
- b) Lead
- c) Silver
- d) Aluminium

Q.7 The water from kitchens, bathrooms, wash basins etc is known as (CO8)

- a) Storm sewage
- b) Sewer
- c) Sullage
- d) D.W.F.

Q.8 The oxygen dissolved in the fresh sewage is known as _____. (CO11)

- a) Dissolved oxygen
- b) C.O.D.
- c) O.C.D.
- d) B.O.D.

Q.9 D.W.F. means (CO9)

- a) Dry winter flow
- b) Dry weather flow
- c) Dense weather flow
- d) None of these

Q.10 The treatment which works on the biological principles known as _____. (CO13)

- a) Primary treatment
- b) Screening
- c) Secondary treatment
- d) Skimming tanks

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SECTION-B

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

- Q.11 Water which is served to the consumers should be _____ from diseases Causing bacteria. (CO1)
- Q.12 Turbidity is a measure of _____ water to passage of light. (CO3)
- Q.13 Total water requirements per capita per day amounts to _____. (CO2)
- Q.14 The process of killing pathogenic bacterias from the water is called _____. (CO4)
- Q.15 Alum is used for _____. (CO4)
- Q.16 Dead end method of distributing water is also called _____. (CO5)
- Q.17 The layout of pipes should be _____ (CO6)
- Q.18 An under ground conduit for carrying sewage is known as _____. (CO8)
- Q.19 B.O.D. is a measure for finding out the _____ of sewage. (CO11)
- Q.20 The filters over which sewage is allowed to sprinkle or trickle for filtration are known as _____. (CO13)

SECTION-C

Note: Short answer type Questions. Attempt any twelve questions out of fifteen Questions. (12x5=60)

- Q.21 Enlist any five necessity of water supply schemes? (CO1)
- Q.22 State the various factors affecting per capita demand. (CO2)

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- Q.23 Explain turbidity test. (CO3)
- Q.24 Describe the working of rapid sand filter. (CO4)
- Q.25 Explain the process of sedimentation. (CO4)
- Q.26 What are the requirements of a good water distribution system? (CO5)
- Q.27 Explain grid iron distribution system of the water. (CO5)
- Q.28 Enlist the name of various water supply fixtures? Explain any one of them. (CO6)
- Q.29 What is sanitary engineering? What is the importance of sanitary Engineering? (CO8)
- Q.30 Write a short note on separate sewerage system. (CO9)
- Q.31 Write any five function of ventilating shaft. (CO9)
- Q.32 What are the different tests of sewer lines? Explain any one of them. (CO10)
- Q.33 Write a short note on D.O. and C.O.D. (CO11)
- Q.34 State and explain the different types of screens. (CO13)
- Q.35 Explain various types of traps with free hand diagram. (CO14)

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)

- Q.36 State the name of various physical tests conducted on water. Explain any one of them. (CO-3)
- Q.37 Give comparison between disposal by dilution and disposal by Land treatment. (CO-12)
- Q.38 Explain activated sludge process with the help of diagram. (CO-13)

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