

No. of Printed Pages : 4
Roll No.

220743

4th Sem / 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 Chlorination of water is done for

- a) Removal of Sediments
- b) Removal of suspended Solid
- c) Removal of hardness
- d) Removal of bacteria

Q.2 The Permissible PH value for public supply water is between

- a) 4.5 to 5.5 b) 5.5 to 6.5
- c) 6.5 to 8.5 d) 8.5 to 10.5

(1)

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Q.3 Water supply scheme is usually designed for a life of

- a) 100 years b) 50 years
- c) 25 years d) 10 years

Q.4 For a well-planned city, the suitable layout of distribution system is

- a) Dead end system b) Grid Iron system
- c) Ring system d) Radial System

Q.5 The trap used for water closet is Called!

- a) Gully trap b) P-trap
- c) Intercepting Trap d) Anti siphon Trap

Q.6 Which one does not affect the sanitary sewage

- a) Population of area b) rain water
- c) Plan of area d) None of these

SECTION-B

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

Q.7 Explain Screening

Q.8 Human excreta is a _____ waste

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Q.9 Water test is conducted for _____

Q.10 B.O.D. means

Q.11 Name some water borne disease.

Q.12 The Purpose of sewage disposal is _____

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Give two advantages of Grid Iron system and Dead End System

Q.14 How turbidity test is conducted by using Jackson's Turbidity meter?

Q.15 What is population forecasting? Explain any two methods.

Q.16 Write a short note on sedimentation with coagulation.

Q.17 Explain C.O.D.

Q.18 Write the purposes of sewage disposal.

Q.19 Explain any five water supply fixture.

Q.20 Explain back filling of Trenches.

Q.21 Explain water carriage system and its advantages.

Q.22 Define manhole and draw its diagram.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the working of slow sand filters with the help of diagram.

Q.24 Explain the Process of sewage treatments with the help of flow diagrams.

Q.25 Write the construction, working, advantages and disadvantages of expansion joints.