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Roll No.

**4th Sem. Branch: Civil Engineering
Sub : Water supply & waste water engineering &
Irrigation Engineering Drawing/
Public Health Irrigation Engg. Drg.**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x2=20)

- Q.1 Define sewerage.
- Q.2 Define vent pipe.
- Q.3 Define Trap.
- Q.4 Draw the symbol of concrete.
- Q.5 Define Guide Bank.
- Q.6 Define Free-Board.
- Q.7 Define Canal Head Regulator.
- Q.8 Explain types of Tube Wells.
- Q.9 Define strainer well.
- Q.10 Define Rainwater Harvesting.

Section-B

Note: Objective type questions. Attempt any five questions. (5x8=40)

- Q.11 Draw the 'V' shaped Drain Cast in situ.
- Q.12 Draw the X-Section of R.C.C. Sewer having 750 mm diameter.

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- Q.13 Draw the plan, section of Gully trap.
- Q.14 Draw section plan X- section for a Septic tank for 15 users.
- Q.15 Draw any three views of a pedestal type wash basin.
- Q.16 Draw a neat sketch of open well.
- Q.17 Draw a Cross-Section of a zoned dam. Use the following sizes. Assume suitable additional size if required.
 - Top width 5.00, R.L. 221.00
 - Bed RL = 200, Height & Dam = 21.00m
 - U/S slope = 3:1
 - D/S slope = 2:1
 - Clay core filling in zone 2, base width of clay Core = 10.00
- Q.18 Draw the Cross-Section of Homogenous Earth Dam.

Section-C

Note: Long answer type questions. Attempt any two questions out of three Questions. (2x20=40)

- Q.19 Draw the detailed elevation of two pipe system for drainage services of a building.
- Q.20 Draw the cross section of a lined canal fully in cutting, the lining consists of 130 mm thick C. Conc. (1:2:4). Use standard specifications. The natural surface level is 1.0 m above the lining.
- Q.21 Draw the detailed plan of a bath room cum WC.

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