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Roll No.

180746/170746

4th Sem. Branch : Civil

**Subject : Water Supply and Waste Water Engineering
and Irrigation Engineering Drawing / Public Health
Irrigation Engg. Drg.**

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

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| Q.1 | Draw the symbol of Plain Kitchen sink. | (CO1) |
| Q.2 | Draw symbol of foot batch. | (CO2) |
| Q.3 | Define weir. | (CO5) |
| Q.4 | Draw symbol of Wall Lavatory Basin. | (CO3) |
| Q.5 | Define Dam. | (CO2) |
| Q.6 | Draw symbol of Pedestal urinal. | (CO1) |
| Q.7 | Draw symbol of Man Hole. | (CO8) |
| Q.8 | Draw Symbol of Earth. | (CO9) |
| Q.9 | Define canal head works. | (CO8) |
| Q.10 | Define cross regulator system. | (CO6) |

SECTION-B

Note: Short answer type Questions. Attempt any five questions out of eight Questions. Assume suitable data. (5x10=50)

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| Q.11 | Draw a typical cross-section of a unlined canal Partly cutting and Partly filling. (Assume Suitable data) (CO1) |
| Q.12 | Draw cross-section of open drain (u-shaped) with their foundation. (CO1) |
| Q.13 | Draw a layout plan of a canal head works. (CO6) |
| Q.14 | Draw a cross-section of a weir. (CO5) |
| Q.15 | Draw Cross-Section of Masonry sewer egg shaped. (Assume Suitable Data) (CO7) |
| Q.16 | Draw detailed section of gully trap. (CO5) |
| Q.17 | Draw cross - section of Earthen Dam (Zoned Type). (CO3) |
| Q.18 | Draw Rainwater Harvesting system in a house layout. (CO1) |

SECTION-C

Note: Long answer type Questions. Attempt any two questions out of three Questions. Assume suitable data. (2x15=30)

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| Q.19 | Draw a detailed layout plan of a canal head works. (CO6) |
| Q.20 | Draw a detailed layout plan of a distributary system with two branches and a total length of 1000m, showing the location of sluice gates and water courses. (CO4) |
| Q.21 | Draw detailed plan and section of an Inspection Chamber. (CO2) |