

School of Engineering**B.TECH Civil Engineering
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem IV - G1UA401T - Hydrology and Hydraulic Systems***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- | | | |
|-----|--|--------|
| 1) | Explain the term direct irrigation | K1(2) |
| 2) | Describe the horton equation. | K2(4) |
| 3) | What is meant by surface and sub surface irrigation, what are the type? Discuss briefly. | K2(6) |
| 4) | Define the hydrology and discuss critically the statement "Knowledge of hydrology is must for any water resource planning" | K3(9) |
| 5) | Enlist the Classification of infiltration Capacities | K3(9) |
| 6) | Describe briefly Drip irrigation method. | K5(10) |
| 7) | Explain three methods of irrigation. | K4(12) |
| 8) | Define storage in surface hydrology with example. | K5(15) |
| 9) | Describe the working principle of a non-recording type rain gauge with neat sketch, | K5(15) |
| 10) | Explain the methods of rain water harvesting | K6(18) |