

UNIT-IV

S.No	Questions	BTL	CO	PO
Part-A(Short Answer Questions)				
1	Define groundwater hydrology.	L1	CO4	1
2	What is an aquifer?	L1	CO4	1
3	Name the types of aquifers.	L1	CO4	1
4	Define specific yield.	L1	CO4	1
5	What is transmissibility?	L1	CO4	1
6	State Darcy's law.	L1	CO4	1
7	Define storage coefficient.	L2	CO4	2
8	What is duty of water?	L1	CO4	1
9	Define delta in irrigation engineering.	L1	CO4	1
10	What is consumptive use of water?	L2	CO4	2
Part-B(Long Answer Questions)				
1	Discuss occurrence and movement of groundwater.	L4	CO4	3
2	Explain different types of aquifers and their characteristics.	L4	CO4	3
3	Describe specific yield, permeability, storage coefficient and transmissibility.	L4	CO4	3
4	Explain Darcy's law and its applications in groundwater flow.	L4	CO4	3
5	Derive equations for steady radial flow into confined and unconfined aquifers.	L4	CO4	3
6	Explain recuperation tests and determination of well constants.	L4	CO4	3
7	Discuss crop water requirements, cropping pattern, duty and delta.	L4	CO4	3
8	Explain soil-water relationships and irrigation requirements.	L4	CO4	3
9	Describe methods of applying irrigation water to fields.	L4	CO4	3
10	Discuss quality requirements of irrigation water and frequency of irrigation.	L5	CO4	3