

4th Sem
IRRIGATION ENGINEERING

1. **2 Marks Questions**

- i. What is cross-drainage works?
- ii. Derive the relationship between base, delta and duty.
- iii. Define crop period.
- iv. What is an aquiclude?
- v. Define canal escapes.
- vi. What is water logging
- vii. Define 'yield' of an open tube well.
- viii. What do you mean by hydrologic cycle?
- ix. Write down the various sources of irrigation water.
- x. What is the function of head regulator?

2. **5 Marks questions**

- i. Mention the types of irrigation followed in India.
- ii. Write briefly the functions and necessity of cross drainage work.
- iii. Describe briefly the advantages of lining of irrigation canals
- iv. Write briefly the different types of dams based on their construction material.
- v. Write the different causes of water logging.
- vi. Differentiate between weir and barrage.
- vii. Write the Dicken's and Ryre's formula for flood discharge.
- viii. Write down the resources taken to control water logging.

10 Marks Questions

3. Describe with neat sketches the types of cross drainage work adopted.
4. Discuss briefly the factors on which duty depends.
5. Describe briefly various forces acting on a gravity dam.
6. Describe the methods of irrigation.
7. Write short notes on any two:
 - (a) Unit hydrograph
 - (b) Cut-lets
 - (c) Aquifer
 - (d) Earthen dam.