

Government polytechnic Jajpur

4th sem. Civil

Fluid mechanics & Hydraulic Irrigation

Short types

- 1 . (a) What do you mean by Gauge pressure and vacuum Pressure ?
- (b) What are the different types of rain gauges ?
- (C) State the relation between duty and delta ?
- (d) Define catchment area ?
- (e) What are the types of irrigation canal ?
- (f) State Bernoulli's theorem ?
- (g) State continuity equation ?
- (h) Difference between notch & Weir ?
- (i) Difference between weir Barrage ?
- (j) What do you mean by uniform and non uniform flow ?
- (k) State Reynold's Number ?
- (l) Difference between centrifugal & reciprocating pump ?
- (m) Define runoff ?

Long Types

1. Define base, delta & duty & derive the relationship between them ?
2. Derive continuity equation ?
3. What are the different types of cross drainage work ?
4. What are the different types of Losses in pipe ?
5. Write down the causes & effects of waterlogging ?
6. Derive Bernoulli's equation ?
7. State different types of spillway ?
8. What is a reciprocating pump ? Describe the principle & working of a reciprocating pump with neat sketch ?
9. Name the component of the diversion headwork and state their functions?
10. What is centrifugal pump? Describe the working principle with neat sketch ?
11. State the component part of Barrage with neat sketch ?
12. What are the causes & effects of waterlogging also state the remedies ?
13. State different type of fluid flow

