

GUJARAT TECHNOLOGICAL UNIVERSITY

3rd Semester Civil Engineering – PDDC

Subject Code & Name : X30601 - Hydrology and Water Resources Engineering

Assignment – 4

Date : 18-10-2014

Theory :

1. What is flood? What are the causes of floods?
2. Discuss the various methods of flood controls.
3. Write short notes on:
 - i. Flood routing
 - ii. Flood forecasting and warning
4. Describe various causes of draught.
5. Write short note on rain water harvesting?
6. Enumerate the components of hydroelectric power project? Discuss any one of them.
7. A flood of certain magnitude has a return period of 50 years
 - i. What is its probability of exceedance?
 - ii. What is the probability that this flood may occur at least once in the next 25 years?