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UITians

EIS-200

B.E. (VIth Sem.) (CGPA) Civil Engg. Exam.-2015

WATER RESOURCES ENGINEERING

Paper - CE-602

Time Allowed : Three Hours

Maximum Marks : 60

Note : Attempt all questions. Each question carries equal marks.

Q.I Discuss briefly three important methods, which are used for determining the mean rainfall over a drainage basin. 10

Or

Explain following :

1. Hydrological Cycle
2. Tipping Bucket type rain gauge

Q.II What do you understand by flood forecasting? Why flood forecasts are necessary in life and how are they formulated? 10

Or

Discuss the various types of floods and write the methods of flood estimation.

(2)

- Q.III Discuss briefly the various steps that are involved in planning water resources projects. 10

Or

Discuss various methods of rain water harvesting for agriculture and domestic purposes.

- Q.IV Explain the various methods of irrigation, write their advantages and disadvantages. 10

Or

What is principal crop; write the water requirements of principal crops.

- Q.V How many types of canals? Explain the design of unlined canals. 10

Or

Write the suitable selection of pumps for irrigation purposes and also discuss the advantage of well irrigation.

- Q.VI Write short notes on following any four—

1. Confined and unconfined aquifers.
2. Sprinkler and drip irrigation.
3. Intensity Duration Curve for precipitation.
4. Steady flow of wells.
5. Intensity of irrigation.
6. Disadvantage of well irrigation.