

24292

B.Tech. 5th Semester (Civil Engg.) Examination,

December-2012

HYDROLOGY

Paper-CE-311-F

Time allowed : 3 hours]

[Maximum marks : 100

*Note : Attempt any five questions out of 9 questions.
Q. No. 1 is compulsory. Each question carries equal marks.*

1. (a) Explain the Hypsometric curve.
(b) Explain the forms of Precipitation.
(c) Explain Penman's equation.
(d) Describe the infiltration.
(e) What is Gumbel's method ? 5×4=20
2. What is Drainage basins ? Explain its characteristics. 20
3. What is the meaning of Precipitation ? Explain the types of Precipitation. 20
4. Describe the Reservoir Evaporation and methods used to control it. 20
5. (a) How to measure the infiltration ? 10
(b) Explain the working and uses of stage hydrograph. 10
6. Explain the uses and limitations of UH. 20

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7. Explain aquifers. Also discuss types of aquifers and compressibility of this. 20
8. Discuss the steady state flow to wells in unconfined aquifers. 20
9. Write short note on any *two* : 20
- (a) Probable max. Precipitation.
 - (b) Darcy's law.
 - (c) Stream geometry.

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