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.