

Printed Pages : 2



EAG-503

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 180510

Roll No.

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B. Tech.

(SEM. V) (ODD SEM.) THEORY
EXAMINATION, 2014-15
WATERSHED HYDROLOGY

Time : 2 Hours]

[Total Marks : 50

- 1 Attempt any four parts of the following : **3×4=12**
- Define Watershed and its components.
 - What do you understand by Interception?
 - What do you understand by ground water recharge?
 - Enumerate major factors affecting runoff.
 - Define drought.? Classify them.
- 2 Attempt any three parts of the following : **4×3=12**
- Differentiate between evaporation and evapotranspiration.
 - What are the salient points of the national watershed planning of our country?
 - Explain the extension of rating curve.
 - What are the uses and limitations of Unit hydrograph?

- 3** Attempt any three parts of the following : **4×3=12**
- (a) Explain the basic concepts of Hydrological modeling.
 - (b) Write short note on :
 - (i) Flood routing.
 - (ii) Synthetic Hydrograph.
 - (c) Discuss the main reasons for floods and flood control measures.
 - (d) Explain Mass curve of cumulative rainfall be obtained.
- 4** Attempt any two parts of the following : **7×2=14**
- (a) What is the rational formula for prediction of runoff? Discuss Horton's Law also.
 - (b) Explain the importance of rainfall intensity graph and mass rainfall curve with suitable sketches.
 - (c) What is the precipitation? Mention different techniques for measuring precipitation.
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