

R16

Code No: 135BT

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, October - 2020

WATER RESOURCES ENGINEERING
(Civil Engineering)

Time: 2 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) What are the factors affecting infiltration? [7+8]
b) Give a schematic diagram of hydrological cycle. [15]
2. Write about Double Mass Curve analysis and where it is used. [15]
- 3.a) Define Lag time, Peak discharge and Rising limb. [8+7]
b) What are the limitations of unit hydrograph? [15]
4. Explain in detail the steps involved in creating a unit hydrograph. [15]
5. Define Specific retention, specific storage and Coefficient of permeability in terms of aquifers. [15]
6. Explain in detail the working principle of tube wells. [15]
- 7.a) Define frequency of irrigation and factors affecting the frequency of irrigation. [8+7]
b) What is border irrigation and explain in details its application? [15]
8. Give a schematic diagram of Trapezoidal section of lined channel designs of canals. [15]

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