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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech III Year II Semester Supplementary Examinations July-2021**

**WATER RESOURCES ENGINEERING - II**

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- 1 a What do you understand by a fall in a canal? Why it is necessary? 7M  
b How do you select location of canal fall? 5M

**OR**

- 2 a What are the types of canal fall? 3M  
b Explain any four types of canal falls with neat sketch. 9M

**UNIT-II**

- 3 a Explain the necessity of stream gauging 7M  
b List the criteria for selection of gauging site 5M

**OR**

- 4 a What is the data to be obtained from field measurements to determine the discharge by slope area method? 6M  
b Explain how the discharge is computed by slope area method 6M

**UNIT-III**

- 5 a What are the basic factors controlling process of meandering? 6M  
b Explain general features of meandering. 6M

**OR**

- 6 a What are the effects of levees on flood flows? 6M  
b What are the points to consider the planning of levee? 6M

**UNIT-IV**

- 7 a Explain various types of reservoirs. 8M  
b What do you understand multipurpose reservoirs? 4M

**OR**

- 8 a Write brief notes on reservoir yield. 6M  
b Write short notes on mass curve and demand curve 6M

**UNIT-V**

- 9 a Explain the methods of determining principal and shear stresses in gravity dam. 6M  
b Draw an elementary profile of a gravity dam and show various components on it. 6M

**OR**

- 10 a Draw the practical profile of a gravity dam. 6M  
b Derive the limiting height of a gravity dam. 6M

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