

R18

Code No: 157CH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, February/March - 2022

IRRIGATION AND HYDRAULIC STRUCTURES

(Civil Engineering)

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

1. Explain various types of reservoirs. What do you understand by multipurpose reservoir? Discuss. [15]
2. Discuss the factors on which the selection of the site of a reservoir depend. [15]
3. What are the forces acting on gravity dam? Explain in detail. [15]
4. Describe the criteria for designing the gravity dam. [15]
5. What are the criteria for safe design of earth dam? Discuss. [15]
6. Discuss various methods used for energy dissipation below the spillways. [15]
7. What do you understand by silt extractor and silt ejector? Explain. [15]
8. What is meant by level crossing? Write a note on selection of suitable type of cross-drainage works. [15]

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