

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-2 EXAMINATION- 2025
B.Tech VII Semester (CE)

COURSE CODE (CREDITS): 18B1WCE736(3)

MAX. MARKS: 25

COURSE NAME: DAM AND RESERVOIR DESIGN

COURSE INSTRUCTOR: DR. NIRAJ SINGH PARIHAR

MAX. TIME: 1 Hour 30 Min

Note: (a) All questions are compulsory.

(b) Use of calculator is permitted.

(c) The candidate is allowed to make suitable numeric assumptions wherever required for solving the problem.

Q.No	Question	CO	Marks
Q1	The yield of the water in Mm^3 from a catchment area during each successive month of an year are given as 1.4, 2.1, 2.8, 8.4, 11.9, 11.9, 7.7, 2.8, 2.52, 2.24, 1.96 and 1.68. Determine the minimum capacity of the reservoir allowing the water to be drawn off at a uniform rate assuming no loss of water over the spillway.	CO1,3	7
Q2	Discuss the structural and functional classification of the dam structures. Also justify the suitability of each structural type on the basis of site conditions.	CO1,2	10
Q3	Explain the major storage zones of a reservoir with the help of a neat figure and discuss their significance with respect to the reservoir capacity.	CO3	8