

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2025

B.Tech- VII Semester (CE)

COURSE CODE (CREDITS): 18B1WCE732 (3)

MAX. MARKS: 25

COURSE NAME: Environmental Management and Impact Assessment

COURSE INSTRUCTORS: Dr. Rishi Rana Kalia

MAX. TIME: 1 Hour 30 Min

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	CO	Marks
Q1	A river has flow = 50 m ³ /s, BOD = 4 mg/L. A sewage treatment plant discharges 5 m ³ /s effluent with BOD = 40 mg/L. Calculate the BOD of the river after mixing.	CO-3	3 Marks
Q2	At a road intersection, the noise levels measured are: Source 1 = 70 dB, Source 2 = 74 dB, Source 3 = 65 dB. Calculate the combined noise level.	CO-2	3 Marks
Q3	What are the main noise sources considered in EIA for highways?	CO-2	4 Marks
Q4	Explain the importance of baseline data collection in air, water, and noise EIA studies?	CO-3	8 Marks
Q5	Gas from industry has an NO ₂ content of 52 ppm at 760 mmHg and 20°C. Calculate the concentration of NOX concentration in micrograms per cubic meter and milligram per cubic meter?	CO-2 & 3	3.5 Marks
Q6	Case study: A 500 MW thermal power plant is proposed near a river. Discuss the possible environmental impacts and suggest mitigation measures.	CO-2	3.5 Marks