

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST - 2 EXAMINATIONS- 2022

B.Tech- VII Semester (Civil)

COURSE CODE (CREDITS): 18B1WCE732

MAX. MARKS: 25

COURSE NAME: Environmental Management and Impact Assessment

COURSE INSTRUCTORS: Dr. Rishi Rana Kalia

MAX. TIME: 1 Hour and 30 Minutes

Note: All questions are compulsory. Marks are indicated against each question in square brackets. Scientific calculators are allowed.

Q1. Write a short note on water quality analysis and explain the standards for water quality?

[4 Marks] (CO-3)

Q2. (a) What is contingency plan in environmental impact statement? [2 Marks] (CO-2)

(b) What are the human health effects of nitrogen dioxide as air pollutant?

[2.5 Marks] (CO-3)

Q3. Explain in detail the models used for water impact predictions linked with the environmental impact assessment?

[5 Marks] (CO-2)

Q4. Determine the volume occupied by 9 mol of gas at 25 °C and 820 mm Hg?

[2.5 Marks] (CO-3)

Q5. (a) Discuss box model in detail?

[2 Marks] (CO-2)

(b) A sample of air is analyzed at 0°C and 1 atmospheric pressure is reported to contain 68 ppm of carbon monoxide. Determine the equivalent carbon monoxide concentration in $\mu\text{g}/\text{m}^3$ and milligrams/ m^3 ?

[2 Marks] (CO-3)

Q6. Calculate the sound pressure level of the sources emanating the sound at every 10 minutes

intervals as give in the following data-

[4 Marks] (CO-3)

Time	dB
90	118
100	120
110	129

120	140
130	165
140	170
150	185
160	186
170	190
180	200

Q7. Identify and list major primary and secondary air pollutants? [1 Mark] (CO-2)

T2 Examinations October 2022