

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -3 EXAMINATION- 2021
B.Tech VII Semester

COURSE CODE: 18B1WCE732

MAX. MARKS: 35

COURSE NAME: Environmental Management and Impact Assessment

COURSE CREDITS: 3

MAX. TIME: 2 Hours

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. Discuss role of general public in environmental clearance? [C0-5] [4]
2. (a) The BOD₅ of a water sample is 150 mg/l at 20°C. The k value is known to be 0.23 per day. What would BOD₈ be, if the test was run at 15°C? [C0-4 & 5] [4]
(b) Determine the volume occupied by 8 mol of gas at 25°C and 820 mm Hg? [C0-3] [2]
3. (a) Explain the classification of environmental parameters? [CO-1] [2]
(b) Explain in detail all the sources of air pollutants? Discuss in detail the Box model? [CO-2] [3]
4. A dairy processing about 1, 33,000 kg of milk daily produces an average of 246 cubic meters per day of waste water with BOD of 1400 mg/l. The principal operations are bottling of milk, and making of ice cream, with limited production of cheese. Compute the waste water flow and BOD per 100 kg of milk received, and the equivalent population of the daily waste discharge? [CO-6] [5]
5. A sample of air is analyzed at 0°C and 1 atmospheric pressure is reported to contain 9 ppm of carbon monoxide. Determine the equivalent carbon monoxide concentration in $\mu\text{g}/\text{m}^3$ and milligrams/ m^3 ? [3] [CO-1&2]
6. What are the mitigation measures and monitoring techniques for environmental assessment of biotic impacts? [CO-6] [3]
7. Explain in detail the various stages of EIA along with the significant environmental impacts? [CO-1] [2 + 2]
8. Discuss the 10 major mitigation measures for soil and geological impact assessment? [CO- 5& 6] [5]