

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2024

B.Tech 7th Semester (CE)

COURSE CODE (CREDITS): 18B1WCE732 (3)

MAX. MARKS: 35

COURSE NAME: Environmental Management and Impact Assessment

COURSE INSTRUCTORS: Dr. Rishi Rana Kalia

MAX. TIME: 2 Hour

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	Distinguish between rapid EIA and Comprehensive EIA with examples?	CO-3	4 Marks																				
Q2	What are the benefits of post environmental audit?	CO-2	5 Marks																				
Q3	Explain the evolution and development of NEPA. Discuss its key features?	CO-3	4 Marks																				
Q4	Briefly explain various types of socio economic impacts?	CO-5	3 Marks																				
Q5	A town has an average domestic sewage flow of 73,856 m ³ /day with a BOD concentration of 650 ppm. A neighboring industrial estate adds about 31,325 m ³ /day of sewage having 8060 kg of BOD to it. Compute the concentration of BOD in industrial and the combined sewage, the probable population and per capita flow of sewage and the population equivalents based on the BOD load and hydraulic load.	CO-3&4	5 Marks																				
Q6	Explain about the Concept of ISO and ISO 14000 in EIA?	CO-3	3 Marks																				
Q7	Calculate the sound pressure level of the sources emanating the sound at every 10 minutes interval in the given following data: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Time</th> <th>DB</th> </tr> </thead> <tbody> <tr><td>10</td><td>74</td></tr> <tr><td>20</td><td>85</td></tr> <tr><td>30</td><td>80</td></tr> <tr><td>40</td><td>87</td></tr> <tr><td>50</td><td>78</td></tr> <tr><td>60</td><td>80</td></tr> <tr><td>70</td><td>85</td></tr> <tr><td>80</td><td>74</td></tr> <tr><td>90</td><td>76</td></tr> </tbody> </table>	Time	DB	10	74	20	85	30	80	40	87	50	78	60	80	70	85	80	74	90	76	CO-2&3	2 Marks
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Q8	Give the list of different project activities which will give impact on air Environment?			CO-4	2	Marks
Q9	Discuss the 10 major mitigation measures for soil and geological impact assessment?			CO-3	2	Marks
Q10	<p>(a) The 3 days 15°C BOD of a sample of sewage is 250 mg/l. Draw a graph of 5 day BOD as a function of temperature in the range 10°C to 30°C in steps of 5°C.</p> <p>(b) The average sewage flow from a city is 85×10^8 l/d. if the average 5 day BOD is 725 ppm, compute the total daily 5 day oxygen demand in kg, and the population equivalent of sewage. Assume per capita BOD of sewage per day as 225 g.</p>			CO-4 &5	2 3	Marks Marks