## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- 2025

## B.Tech 7<sup>th</sup> 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 Hours

Note: (a) All questions are compulsory.

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

## (c)SCIENTIFIC CALCULATOR IS ALLOWED

Q.			Question	•		CO	Marks
No					<u> </u>		
Q1	Suggest EIA-l	pased mitigation	on measures?			CO-1	4
		-			W. Marketter Committee Com	& 3	Marks
Q2				nd enlist the	major primary	CO-4	5
	and secondary					ļ <u>.</u>	Marks
Q3					the following	CO-5	7
	impacts: Increased AQI during construction, Noise from blasting, Loss						Marks
	of vegetation, Risk to nearby community, Change in groundwater						
	level. Select any two EIA methodologies and explain how both would be applied for the above scenario. Identify 3 Environmental Indicators						
	for each en	vironmental	component	(Air, Water,	Noise, and		
	Biological).		7			CO-2	_
Q4		of an example discuss policy based screening approach					3
	for a project d				<u> </u>	CO-4	Marks
Q5	A wastewater treatment plant disposes of its effluent in a river stream. The characteristics of the stream are as given below: a) What will be the DO concentration after two days? b) what will be the lowest DO						2
							Marks
	. 20	28	wo days? b) w	hat will be the	e lowest DO		Marks
	concentration						
		3.	Wastewater	Stream			
		Flow, m <sup>3</sup> /s	0.2	5.0			
		DO, mg/l	1.0	8.0		l	
		Temp, °C	15	20.2			
	1 2 302	BOD	100	2.0			
		@20°C,					
		mg/l				 	
		K1@20°C,	0.2	-			
		d-1		_			
		K2@20°C, d <sup>-1</sup>	-	0.3		]	
			<u> </u>	<u> </u>		00.5	
Q6	How do exper	t systems help	in prediction	and evaluation	of impacts?	CO-3	4

	Discuss with an example?		Marks
Q7	What are the mitigation measures and monitoring techniques for environmental assessment of biotic impacts?	CO-4	4 Marks
Q8	a) What do you understand by risk assessment? What are the factors on which risk depends?	CO-2 & 3	2.5 Marks
	b) Determine the volume occupied by 8 mol of gas at 25°C and 820 mm Hg		1.5 Marks
Q9	Discuss environmental impacts of noise?	CO-2	2 Marks
			Marks
		4 V	
		80g)	