Name:

**Enrolment No:** 



UPES

## End Semester Examination, December 2023

Course: Offshore Operations Program: M Tech PE Course Code: PEAU7003 Instructions: All the questions are compulsory

## Semester: I Time : 03 hrs. Max. Marks: 100

## SECTION A (5Qx4M=20Marks)

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S. No.					Marks	СО	
Q 1	List and explain mo application.	and explain mobile offshore rigs with reference to the depth of its cation.					
Q 2	Define the followi Temporary guide ba	<sup>d</sup> 4	CO2				
Q 3	Explain briefly any	4	CO2				
Q 4	State the difference	n. 4	CO1				
Q 5	Define Coriolis force low pressure due to	<sup>1d</sup> 4	CO2				
			SECTION				
			(4Qx10M = 40)	Marks)			
Q 6	Describe the oceanographic weather parameters affecting offshore drilling operation					CO3	
Q 7	Discuss how the dril the advantages of D	te 10	CO3				
Q 8	Explain in detail the components of drilling marine riser system from bottom to top.					CO3	
Q 9	Discuss the major components of subsea well completion system in offshore operation.					CO4	
			SECTION (2Qx20M=40 M				
Q 10	Explain, with the aid directional well fro Provide a detailed specifications:	h.					
	Casing and Liner Sizes (inches): 20 13 3/8	HoleSize(inches):N/A17	Measured Depth (MD) in feet: 2,000 5,000	True Vertical Depth   (TVD) in feet:   1,500   3,800	20	CO4	
	9 5/8	12 1/4	8,500	6,200			

	7	8 1/2	12,000	9,000			
	5 1/2	6	16,000	12,500			
	No Liner		20,000	15,700			
Q 11	Illustrate with the Jacketed Platform.	e for a					
		20	CO4				
	Explain briefly the operations and disc	ep water					