Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Term Examination – May 2023

Program: B.Tech APE (UP)

Course: Developing LNG Production & Handling

Code: PEAU 4012P

Semester: V Time: 03 hrs. Max Marks:100

	SECTION A (5*4=20)		
1	List advantages & disadvantages of Nitrogen BHP process.	04	CO
2	Categorize the types of vaporizers.	04	CO
3	Sketch double containment tank.	04	CO
4	List the coverage points of OISD 194?	04	CO
5	Reframe reliable natural gas price benchmark.	04	CO
	SECTION B (4*10=20 Marks)		
6	Illustrate the aspects of LNG safety. Describe LNG leak prevention methods.	10	СО
7	Evaluate the methods of power generation by CULNG with neat sketch.	10	СО
8	Summarize LNG marine facilities & explain in brief.	10	СО
9	i) A LNG tanker, DISHA (Hull No. 2210) was delivered on 20th January 2023 from Ras Laffon, Qatar to LNG terminal Dahej, India for transporting 8 MMT of LNG which corresponds to 2,50,000 Cubic Meter at 1 atm. The tanker reached its destination on 27th January 2023. Estimate the quantity of boil-off gas produced during the transportation, for a boil-off, 0.1 and 0.05% (by wt) per day respectively.	05	СО
	ii) Analyze the selection criteria for LNG storage tanks.	05	CO
	SECTION-C (20*2=20)		
10	With the help of neat sketch describe cascade liquefaction process.	20	CO
11	Discuss parameters for negotiations for LNG Trade.	20	СО