



Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Course: Energy and Utilities
Program: MBA Oil & Gas Management
Course Code: OGET7006

Semester: 2nd
Time : 03 hrs.
Max. Marks: 100

Instructions:

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO
Q1.	What is the primary difference between an incident and a hazard?	2	CO1
Q2.	Natural Gas can be stored in a) Salt Caverns b) Abandoned Oil Wells c) Underground Tanks d) All of the Above	2	CO2
Q3.	The volume of natural gas does not change with temperature. (True/False)	2	CO2
Q4.	Write a brief note on the Efficiency of Power Plants in India.	2	CO1
Q5.	The principle of making all pipelines available for transportation of gas, irrespective of ownership of pipeline, gas supplier, and consumer, is termed a) Open Access Principle b) Common Carrier Principle c) Ready to Use Network Principle d) None of these	2	CO2
Q6.	How does Home Area Network aid energy conservation?	2	CO2
Q7.	Flaring of natural gas at oil wells is a significant source of greenhouse gas emissions. (True/False)	2	CO1
Q8.	Why is gas converted to liquid? a) To reduce transportation cost b) To increase the price c) To increase the availability d) All of the Above	2	CO1
Q9.	Which of the following are necessary steps to conduct a Hazard Analysis on your worksite: a) Review Accident History b) Conduct a Preliminary Interview c) Involve Employees	2	CO1

	d) All of the above		
Q10.	Hazid is a quantitative risk assessment tool. (True/False)	2	CO1
SECTION B 4Qx5M= 20 Marks			
Q11.	Discuss Ergonomic Hazards and their consequences.	5	CO2
Q12.	Discuss the advantages of using natural gas as a fuel for power generation.	5	CO3
Q13	Discuss the advantages of using spherical tanks for storing natural gas.	5	CO3
Q14	With reference to transporting Oil & Gas using pipelines, discuss the advantages of a Smart PIG over a regular PIG.	5	CO2
SECTION-C 3Qx10M=30 Marks			
Q15.	Provide a comparative analysis between qualitative and quantitative risk assessment.	10	CO3
Q16.	Discuss any 5 primary and secondary keywords specific to a Hazop study in the Electricity Sector.	10	CO4
Q17	Analyze the savings that Home Area Network offers to a Consumer as its stakeholder.	10	CO3
SECTION-D 2Qx15M= 30 Marks			
Q18	Write a detailed note on Smart Grids.	15	CO4
Q19	Discuss in detail what is Qualitative Risk Assessment.	15	CO4