

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: LNG & Storage of Natural Gas (PTEG 465)

Programme: B.Tech. APE Gas

No. of pages: 01

Semester: VII

Time: 3 hrs

Max. Marks: 100

SECTION A

Q. No.	Answer all questions. [5 X 4 = 20 marks]	Marks	CO
Q. 1	Give the composition of LNG.	5	CO1
Q. 2	Explain the health hazards due to cryogenic temperature of LNG.	5	CO1
Q. 3	Describe 'FOB and Ex-Ship' models related to LNG sales.	5	CO3
Q. 4	Discuss 'Aquifers' as natural gas storage. Diagram is not necessary.	5	CO5

SECTION B

Answer all questions. [10 X 4 = 40 marks]			
Q. 5	Give the advantages and areas of concern of 'Simplified Cascade Liquefaction Process' for LNG production.	10	CO1
Q. 6	Discuss the designs of 'Integrated' and 'Self-supporting' tanks used on LNG carriers.	10	CO2
Q. 7	Illustrate with graphs, 'LNG pricing conceptualization'.	10	CO3
Q. 8	Discuss 'Shipping and Transportation' and 'LNG Quantity' as important considerations for LNG contract, from buyer's view point.	10	CO3

SECTION-C

Q.9 is compulsory. Out of Q.10 & 11 answer any one. [20 X 2 = 40 marks]			
Q. 9	Illustrate with flow diagram, any one process for LNG production.	20	CO1
Q. 10	Analyze and discuss 'Send Out Section' of LNG Regasification Terminal.	20	CO4
Q. 11	Describe with neat sketches, any two types of 'LNG Vaporizers'.	20	CO4