

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, March 2019

Programme Name: B.Tech APE (Gas)

Semester: VIII

Course Name : Understanding of Natural Gas Business

Course Code : CHGS 4003

Max. Marks: 100

Nos. of page(s) :1

Instructions:

SECTION A

S. No.		Marks	CO
1	What is status of natural gas reserves in India?	5	CO2
2	Draw a block diagram of today's gas market path	5	CO3
3	Outline economic indicators for commercial feasibility of gas processing project.	5	CO5
4	Write a short note on economic activity as a driver of natural gas.	5	CO1

SECTION B

5	Discuss physical and financial trading in India	10	CO4
6	Write down short notes on the various components of India's energy mix.	10	CO1
7	Elaborate the worldwide trends in LNG Trade	10	CO3
8	Explain Gas reserves and production in the world.	10	CO2

SECTION-C

9	i) Differentiate between depletion contracts and supply contracts	10	CO4
	ii) What are the implications for power sector in a gas supply & purchase contract? OR	10	CO4
	i) Explain structure of Gas sale and purchase contract in brief.	20	CO4
10	i) Explain the economies of scale and scope as deciding factors for gas transmission and distribution project.	10	CO5
	ii) Discuss extent of service unbundling in gas market	10	CO5

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Instructions:

SECTION A

S. No.		Marks	CO
1	Explain classification of gas allocation	5	CO2
2	Draw a block diagram of old gas market path	5	CO3
3	Explain in brief how to reduce transaction cost in gas distribution system	5	CO5
4	Write a short note on changes in technology a driver of natural gas.	5	CO1

SECTION B

5	Discuss natural gas trading strategies in India	10	CO4
6	Describe following points related to natural gas status in India a) Gas Pipeline Network Status b) LNG Terminals	10	CO1
7	Elaborate the types of natural gas marketers	10	CO3
8	Explain gas consumption pattern in the world.	10	CO2

SECTION-C

9	i) How commodity trading works in India? Explain in brief	10	CO4
	ii) Elaborate pipeline and LNG market structure in detail or	10	CO4
	ii) Explain structure of Gas sale and purchase contract in brief.	20	CO4
10	i) For natural gas processing plant evaluate following terms a) Key economic indicators b) Consideration of good investment.	10	CO5
	ii) Discuss third party access codes of gas transmission and distribution system	10	CO5