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Name of the School (Please tick, symbol is given)	∴	SOE	<u>H</u>	SOCS		SOP	
Programme	∴	B.Tech-APE Spz (Upstream)					
Semester	∴	VI					
Name of the Course	∴	Oil and Gas Marketing and Resource Management					
Course Code	∴	PTEG-316					
Name of Question Paper Setter	∴	PRITISH BARMAN					
Employee Code	∴	40001778					
Mobile & Extension	∴	9401804028 / 7002398567					
Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention "NOT APPLICABLE":							
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Date of Examination	∴						
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Model Question Paper (Blank) is on next page

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: Oil and Gas Marketing and Resource Management

Semester: VI

Programme: B.Tech APE Spz (Upstream)

Course Code: PTEG 316

Time: 03 hrs.

Max. Marks: 100

Instructions: In brief, to the point and provide relevant diagram wherever necessary.

SECTION A

S. No.		Marks	CO
Q 1	Briefly discuss about oil and gas upstream operations.	4	CO1
Q2	Describe the NG measuring meters.	4	CO2
Q3	State four CBM fields of India.	4	CO3
Q4	Describe two flow assurance challenges in crude production.	4	CO4
Q5	Explain PPAC and state three functions.	4	CO5

SECTION B

Q 6	Differentiate between prospect and play. State four conditions for drilling developmental wells.	4+4 = 8	CO1
Q7	Discuss four opportunities in tapping Associated NG. Briefly describe the process of NG transport from wellhead to GGS.	4+4 = 8	CO2
	OR		
	Illustrate with proper block diagram, the NG processing plant design. Explain all the relevant units, products and effluents.		
Q8	Draft a technical proposal, with details of wells to be drilled, for a pilot project to explore the CBM potential in coal seams of an established coalmine. (Assume any data required)	8	CO3
Q9	Discuss the role of API in streamlining of oil industry around the world.	8	CO5
	OR		
	Analyze the present scenario of global crude prices from the point of view of any one OPEC member. Suggest a correction of prices with due justification.		
Q10	Discuss about the proposed Strategic Petroleum Reserves in India.	8	CO6

SECTION-C

Q 11	Analyze the role of DGH, DGMS, OIIB and PNGRB. Discuss the process of arbitration in India, with an example (real or hypothetical).	10+10 = 20	CO5
Q12	Discuss the types and evolution of petroleum contracts worldwide. Suggest a sound contract for satellite gas brown fields located in arid regions.	10+10 = 20	CO6
	OR		
	Comment on two PSCs operational in India. Suggest modifications to PSCs for improving profitability the majority stakeholder's point of view.		

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Instructions: In brief, to the point and provide relevant diagram wherever necessary.

SECTION A

S. No.		Marks	CO
Q 1	Brief about oil and gas retail operations.	4	CO1
Q2	List the crude oil measuring meters.	4	CO2
Q3	Remember the steps to activate CBM wells.	4	CO3
Q4	List four crude blends around the world, with specifications.	4	CO4
Q5	Discuss PCRA and state three of its functions.	4	CO5

SECTION B

Q 6	Describe four Risks associated with oil exploration.	4*2 =8	CO1
Q7	Discuss Pipeline Quality Natural Gas. Name two major oil pipelines in India.	4+4=8	CO2
	OR		
	Identify the major NG consumer sectors in India. State two challenges with NG transportation.		
Q8	Suggest four measures to improve the profitability of CBM operations.	4*2 =8	CO3
Q9	Discuss the conditions suitable for setting an oil refinery. Explain with two examples of existing refining complexes in India.	4+4 =8	CO5
	OR		
	Discuss the implications of change in crude slate on the product slate. State various products derived from typical Indian Crude.		
Q10	Explain the philosophy of OALP. Compare HELP with NELP.	8	CO6

SECTION-C

Q 11	Discuss the about, role, function and powers of any four of the following institutions: _API / DGH / OPEC /DGMS / SEBI / PNGRB / EIA / OIBD	5*4 = 20	CO5
Q12	Discuss with suitable example, the differences in Concession Contracts and PSC. Calculate the capital in INR required to fill India's Strategic Petroleum Reserves at Crude \$75/bbl and USD-INR exchange rate of ₹70 per 1\$.-	10+10 = 20	CO6
	OR		
	Analyze the various fiscal instruments available at governments end to ensure steady and maximum revenue. Comment on Pure Service and Risk Service Contracts.		