

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Integrated Asset Management in O&G industry

Program: B.Tech. CS-OGI

Course Code: CSOG- 4001

Instructions:

Semester: VII

Time 03 hrs.

Max. Marks: 100

SECTION A

S. No.		Marks	CO
Q 1	Identify the different components of Upstream assets and its lifecycle	4	CO1
Q 2	Explain adaptive analytics with proper examples to justify your answer	4	CO1
Q 3	Illustrate and explain Operational Intelligence with appropriate examples	4	CO2
Q 4	Interpret the concept of ACR and its importance in asset management	4	CO3
Q 5	Enumerate the different components of work management and explain each of them	4	CO2

SECTION B

	Statement of question	Marks	CO
Q 6	Explain in detail real time data asset monitoring	10	CO3
Q 7	Identify and explain the data flow diagram of operator and contractor in offshore drilling unit.	10	CO2
Q 8	Illustrate the concept of asset integration in robotic drilling system	10	CO4
Q 9	Analyze the different aspects of predictive maintenance & optimization OR Recognize and analyze operational intelligence in Upstream asset management	10	CO5/ CO4

SECTION-C

Q	Internalize the given case study and answer Q10 & Q11.	Total Marks-40	
	A multinational E&P company is moving on to implement e-oilfield/i-oilfield for three production sites in West Asia. The sites are to be integrated and monitored from a central location in East Europe head office. Under this criteria please answer the following questions:		
Q10	Design an asset integration plan and feasibility study for the above scenario	20	CO5
Q11	Design and analyze the operational intelligence module for predictive maintenance of the above system Or Design the different procurement module component for the above scenario.	20	CO4