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UNIVERSITY OF PETROLEUM & ENERGY STUDIES

End Semester Examination – December, 2019

Program/course: MBA (Oil and Gas Management)
Subject: Data Analytics & Applications in Oil & Gas
Code : OGOG8003
No. of page/s: 3

Semester – III
Max. Marks : 100
Duration : 3 Hrs

All questions are compulsory.

Section A (4 * 8 = 32 marks)

1. Write Short notes on any five

(a) Prescriptive analytics	CO-1	8 MARKS
(b) Data Management	CO-3	8 MARKS
(c) Forecasting	CO-2	8 MARKS
(d) Big data	CO-2	8 MARKS
(e) Linear optimization	CO-1	8 MARKS

Section B (4 * 9 = 36 marks)

2. Attempt any 5 questions:

(a) What is regression analysis? Take an example and explain how can it be used in oil and gas industry?	CO-1	9 MARKS
(b) What is oil field analytics? Why is it important for the industry now?	CO-3	9 MARKS
(c) What is predictive analysis? Explain with the help of an example of predictive analysis being used in the oil and gas industry.	CO-2	9 MARKS
(d) What is conjoint analysis? Explain its use in oil and gas industry with the help of an example?	CO-4	9 MARKS
(e) What is machine learning? Give an example of its application in oil and gas industry.	CO-1	9 MARKS

Section C (16+16 = 32 marks)

3. Attempt any 2 questions:

(a) What is probability distribution? Where can probability distribution be used in oil and gas industry? Explain with an example.	CO-3	6 MARKS
(b) What is lifecycle of an asset? Give an examples of analytics being used in each stage of the lifecycle.	CO-4	6 MARKS
(c) What is linear optimization? Where can you use linear optimization in oil and gas industry? Explain with the help of an example.	CO-2	6 MARKS