

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM & ENERGY STUDIES
End Semester Examination (Online) – July, 2020

Program: MBA (Oil & Gas Management)

Semester: II

Subject/Course: Advance IT Applications For Oil & Gas Industry

Max. Marks: 100

Course Code: DSIT 7010

Duration : 3 Hours

IMPORTANT INSTRUCTIONS

1. The student must write his/her name and enrolment no. in the space designated above.
2. The questions have to be answered in this MS Word document.
3. After attempting the questions in this document, the student has to upload this MS Word document on Blackboard.

		Marks	Cos
Q.1	1(a). Define the Geographical Information System (GIS) and how it is applied across petroleum sector. 1(b). How BP Azerbaijan utilized ArcGIS for BTC pipeline in making complex decisions regarding land management, transportation and environment assessment?	10 x 2 = 20	1,2
Q.2	2 (a). Define Big Data and its five main characteristics. 2 (b) What are the technologies related to storage and processing of the Big Data?	10 x 2 = 20	2,3
Q.3	3 (a). How Decision Support System (DSS) helps in making the right decision? Explain with example its allocation in Oil & Gas Industry 3(b). Explain the embedded systems and their applications	10 x 2 = 20	1,3
Q.4	4 (a). What is the Internet of Things and how can it be harnessed to increase efficiency in Oil & Gas business processes? 4 (b). Explain in detail with the example, one usage of IoT in the Oil & Gas sector.	10 x 2 = 20	3,4
Q.5	5 (a). Explain the smart field “value loop” and the size of the digital prize in Oil & Gas fields 5 (b). How the “digital oil fields” help operators to achieve cost and efficiency gains?	10 x 2 = 20	4,5

ANSWERS