Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2023

Course:MBA OGProgram:Advance IT Applications in Oil & GasTime:03 hrs.Course Code: DSIT 7010

Semester: II

Max. Marks:100

## **Instructions:**

SECTION A 10Qx2M=20Marks			
S. No.		Marks	СО
Q 1	Expand the followings abbreviations a. PIDX b. PPDM	2	C01
Q 2	<i>Fill the blanks</i> GIS tools provide the means to integrate data within a and context.	2	C01
Q 3	<i>Fill the blanks</i> GIS combines theanddata in creating maps.	2	CO1
Q 4	<i>True or False?</i> Asset monitoring is carried out using IOT.	2	CO1
Q 5	<i>True or False?</i> ArcGIS is a product of Intergraph corporation.	2	CO1
Q 6	<i>Fill the blanks</i> Real time systems are those, which must produce theresponse within, the or defined time limit.	2	C01
Q 7	Multiple choice question   Identify the incorrect parameter of the intelligence   a. Reasoning   b. Problem solving   c. Perception   d. Skill	2	CO1
Q 8	Define the following terms, a. OASIS b. SQL	2	CO1
Q 9	Multiple choice question   Identify the missing objective of the PPDM work group used to develop the data   a. All types of seismic data   b. Conventional data   c. 3D data   d. Single component recording	2	CO1
Q 10	Name the two most commonly used datums in North America in GIS framework.	2	CO1

	SECTION B			
4Qx5M= 20 Marks				
Q 1	Describe "API SPECIFICATION 6A, 21 <sup>st</sup> EDITION" of the American Petroleum Institute.	5	CO2	
Q 2	What is "Plug and Pert Completion" in oil wells?	5	CO2	
Q 3	Explain "Mud pulse telemetry"	5	CO2	
Q 4	What are the challenges in High Performance Computing?	5	CO2	
	SECTION-C			
	3Qx10M=30 Marks			
Q 1	Describe the growth of HPC in oil industry and the supercomputer HPC 5 with			
-	its peak processing power and ability to significantly reduce time- to- first oil.	10	CO3	
Q 2	Describe the SAP module <i>IS- Oil &amp; Gas</i> and how it is being used by petroleum			
-	industry?	10	CO3	
Q 3	Define Big Data and its five main characteristics. What are the technologies			
	related to storage and processing of the Big Data?	10	CO3	
	SECTION-D			
	2Qx15M= 30 Marks		-	
Q 1	Explain the smart value loop and smart / intelligent oil fields? Write the case			
	implementation of one digital oil fields in Offshore Brazil and its net	15	CO4	
	improvement on field cost and production profile.			
Q 2	a. Give two used cases of the "Drones coming to oil patches"			
	b. How use of drones help petroleum companies in flare stack inspection,			
	pipeline leak monitoring and DART assisted 3D seismic data acquisition?	15	CO4	