

Name:  
Enrolment No:



**UNIVERSITY OF PETROLEUM & ENERGY STUDIES**  
**End Semester Examination – Dec- 2021**

**Program: MBA Oil & GAS**  
**Subject/Course: Introduction to Information System Management of Petroleum Sector**  
**Course Code: OGOG7008**

**Semester: I**  
**Max. Marks: 100**  
**Duration : 3 Hours**

**SECTION- A**  
**Each Question will carry 2 Marks**

S.No.	Question											
Q.1	1. Define RDBMS. 2. Define Fuzzy Logic.	CO1										
Q.2	<b>Write the full form of,</b> 1. LAN & WAN ..... 2. NLP & HTTP .....	CO1										
Q.3	<b>Relate the following GIS products to their Providers from the list</b> <table><thead><tr><th>Product</th><th>Provider</th></tr></thead><tbody><tr><td>a. MapPoint</td><td>a. ESRI</td></tr><tr><td>b. ArcView</td><td>b. Microsoft</td></tr><tr><td>c. IDRISI</td><td>c. Clark Lab</td></tr><tr><td>d. ArcGIS</td><td>d. ESRI</td></tr></tbody></table>	Product	Provider	a. MapPoint	a. ESRI	b. ArcView	b. Microsoft	c. IDRISI	c. Clark Lab	d. ArcGIS	d. ESRI	CO1
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a. MapPoint	a. ESRI											
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d. ArcGIS	d. ESRI											
Q.4	Describe EPINET as part of ERP of ONGC	CO1										
Q.5	Define Transaction Processing System (TPS).	CO1										
Q.6	Define Metadata.	CO1										
Q.7	Define Knowledge Management System (KMS) in relation to Oil & Gas Industry.	CO1										
Q.8	Describe Telemetry in instrumented oil fields	CO1										
Q.9	Describe Open Standard Platforms in Oil & Gas industry	CO1										
Q.10	Describe Shapefile in GIS	CO1										

**SECTION- B**

**Each Question will carry 5 Marks**

Q.1	What are the problems of managing data resources in a traditional file environment and how are they solved by a database management system?	<b>CO2</b>
Q.2	What is Service Oriented Architecture (SOA)? Give an illustration of SOA middleware in upstream.	<b>CO2</b>
Q.3	What are the consequences of an organization not having an information policy?	<b>CO2</b>
Q.4	What are the principal tools and technologies for accessing information from databases to improve business performance and decision-making?	<b>CO2</b>

**SECTION- C**

**Each Question will carry 10 Marks**

Q.1	1. Describe technologies and tools for protecting information resources. 2. Describe ransomware and its most recent attack on a USA petroleum pipeline.	<b>CO3</b>
Q.2	Describe UK oil & gas authority (OGA) cloud based digital energy platform and its information and data management across asset lifecycle.	<b>CO3</b>
Q.3	<b>Attempt one of the following :</b> Describe HPC technology in seismic data processing. What are the main characteristics of HPC5 super computing system. <p align="center">OR</p> Describe the SCADA systems and draw a generalized SCADA configuration applied for offshore Oil & gas industry.	<b>CO3</b>

**SECTION- D**

**Each Question will carry 15 Marks**

Q.1	Describe SAP Oil & Gas solutions, SAP R/3 architecture and explain how SAP S/4 HANA is a great simplifier of enterprise?	<b>CO4</b>
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Q.2	<p><b>Attempt one of the followings:</b></p> <ul style="list-style-type: none"><li>a. Analyze and describe various IT initiatives taken by ONGC- A Move towards Business Process Re-Engineering of the enterprise.</li><li>b. Elaborate on the role of information systems in business today. Describe the business impact of innovative technologies in new MIS.</li></ul> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"><li>a. What methods can be used for selecting and evaluating information systems projects and aligning them with the firm's business goals?</li><li>b. Explain how key performance indicators, portfolio analysis, and scoring models can be used to select information systems projects?</li></ul>	CO4
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