

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, May 2021

Course: Descriptive Analytics in Oil and Gas
Program: B. Tech CSE OGI
Course Code: CSOG 3003

Semester: VI
Time : 03 hrs.
Max. Marks: 100

SECTION A

- 1. Each Question will carry 5 Marks**
- 2. Instruction: Write short / brief notes**

S. No.	Question	CO
Q 1	Illustrate the different type of analytics that can be performed to any Oil and Gas business	CO4
Q2	List 5 benefit of BI in exploration and production company.	CO3
Q3	State the Gestalt Principles of visual perception to dashboards.	CO2
Q4	Elucidate Kaplan-Norton balanced scorecard	CO2
Q5	State ASUG business intelligence maturity model	CO3
Q6	Define various architecture properties of data warehouse system	CO1

SECTION B

- 1. Each question will carry 10 marks**
- 2. Instruction: Write short / brief notes**

Q 1	Design BI <u>Architecture</u> for Refinery company. Explain various different component of this model.	CO4
Q 2	Dashboard play a very important role in decision making. Explain the evolution of dashboards and identify the advantages of each stage	CO2
Q 3	Design the Rayport-Jaworski performance dashboard and framework for oil and gas industry	CO4
Q 4	Illustrate the various different OLAP operation performed on any data warehouse	CO1
Q 5	Articulate various project tasks undertaken to design a BI model of Oil and Gas Industry	CO3

Section C

1. Each Question carries 20 (7+7+6) Marks.

2. Instruction: Write long answer.

Q1	<p>Elucidate the following with proper examples:</p> <ol style="list-style-type: none">1. Classification of Data Warehouse Architecture2. MD model structures3. ROLAP <p>Or</p> <p>Elucidate the following with proper examples:</p> <ol style="list-style-type: none">1. Data Staging and ETL2. Requirements analysis3. MOLAP	CO1
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