Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2019

Course : Descriptive Analytics for Oil and Gas

Semester : VI

Program : B. Tech - CS (OGI) Time 03 hrs.

Course Code: CSIT341 Max. Marks: 100

Instructions: All questions are compulsory. Options are given for questions 9 and 11.

	SECTION A		
S. No.		Marks	CO
Q 1	What are the various types of Analytics?	4	CO1
Q 2	What are the benefits of Asset Analytics for Rotational Equipment in Oil and Gas?	4	CO4
Q 3	State difference between Scorecard and Dashboard.	4	CO3
Q 4	Explain about the Drill Up, Drill Down and Drill Through in BI Reports.	4	CO2
Q 5	Explain about the Data Backup and Restoring.	4	CO3
	SECTION B		
Q 6	What is Business Intelligence? Discuss Real Time BI, Collaborative BI and Mobile and Disconnected BI.	10	CO1
Q 7	Describe the Well logging information flow using suitable diagram.	10	CO4
Q 8	Explain the concept of authentication, authorization and access permission.	10	CO3
Q 9	Discuss the various types of BI Reports used in BI.		
	OR A business organization needs to analyze its business to help highest level of company management. Given the situation, discuss the various types of dashboards and specify which dashboard the company should choose for best results in this situation.	10	CO2

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Q 10	 a) Data Warehouse is a subject-oriented, integrated, time-variant, and non-volatile collection of data. Explain these four characteristics of Data Warehouse in support of management's decision-making process. b) The 3D view of Sales data is shown below in tabular form. Represent the shown data in Data Cube. 												15	
		Time	Location="Gurgaon"			Location="New Delhi"			Location="Mumbai"					CO1
			Mouse	Mobile	Modem	Mouse	Mobile	Modem	Mouse	Mobile	Modem	Ś.		
	8	Q1	788	987	765	786	85	987	986	567	875			
		Q2	678	654	987	659	786	436	980	876	908			
		Q3	899	875	190	983	909	237	987	100	1089			
		Q4	787	969	908	537	567	836	837	926	987			
Q 11	centra Cultur archite	lized e and ecture	and dec	eentraliz ture, w	zed arch rhich dr	itecture ive the	. Also, selecti	discuss ion of	the two	factor zed or	rd, discurs Organ decent	ization ralized	20	CO3

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	SECTION A		
S. No.		Marks	CO
Q 1	Differentiate between OLAP and OLTP.	4	CO1
Q 2	What are the components of IBM's Smarter Asset Management for Oil and Gas?	4	CO4
Q 3	Explain about the BI Scorecard.	4	CO3
Q 4	Explain about the relational and dimensional reporting style in BI Reports.	4	CO2
Q 5	Explain about the phased and incremental BI roadmap.	4	CO3
	SECTION B		
Q 6	Discuss the three-tier Decision Support Systems?	10	CO1
Q 7	Discuss the components of Organization transformation for an Oil and Gas.	10	CO4
Q 8	Explain about the data backup and restoring.	10	CO3
Q 9	A business organization needs to analyze its business to help highest level of company management. Given the situation, discuss the various types of dashboards and specify which dashboard the company should choose for best results in this situation.	10	CO2
	OR		
	The Kaplan & Norton's (KN) Balanced Scorecard is shown below. Discuss how the four perspectives of KN Balance Scorecard help a business organization.		

