Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2018

Course: Descriptive Analytics for Manufacturing Informatics

Program: B.Tech MI –

Time: 03 hrs.

Semester: VII CSEG475

Max. Marks: 100

	SECTION A		
S. No.		Marks	СО
Q 1	Differentiate between Business Analyst and Data Scientist.	4 CO3	
Q 2	Outline important characteristics of data warehouse.	4 CO2	
Q 3	Explain in brief the following terms (i) ERP (ii) ROLAP		CO2,3
Q 4	Discuss three kinds of data warehouse applications 4		CO2
Q 5	Distinguish between Complex Operations and Volume operations.	4	CO5
	SECTION B		
Q 6	Illustrate various chart types along with their use.	10	CO3
Q 7	What is dashboard? Explain different types of dashboard OR	10	CO2
	Explain in detail classic star schema.		
Q 8	a) Three types of Analytics are [2] b) Four important characteristics of data warehouse are [3] c) Three conceptual models of data warehouse are [2] d) Four different chart types used in report [3]	10	CO1
Q 9	Differentiate between OLAP and OLTP with example.	10	CO4
	SECTION-C		
Q 10	a) Discuss how metrics drive behavior in an organization(10)b) Explain 3 Tier Data warehouse Architecture(10)	20	CO1,4
Q 11	a) What is KN Balanced scorecard used for? Also discuss its limitations (15) b) Categories three types of Decisions taken in an organization (5) OR		CO5,3
	a) What are Gestalt Principles of visual perception to dashboards? (15)b) Differentiate between Business Analyst and Data Scientist(5)		CO5,3

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CSEG4/S

Max. Marks: 100

	Si	ECTION A		
S. No.		Marks	CO	
Q 1	What are the three conceptual models of data v	4	CO3	
Q 2	List important characteristics of data warehouse.			CO2
Q 3	Explain the terms (i) ETL (ii) MOLAP	4	CO2,3	
Q 4	Briefly explain three kinds of data warehou	use applications	4	CO2
Q 5	What are the business challenges for comm	4	CO5	
		ECTION B	l .	
Q 6	Explain various chart types along with their	ir use.	10	CO3
Q 7	What is dashboard? Explain different types	s of dashboard	10	CO2
Q 8	Categories the following examples with be the fall.	hich		
	EXAMPLE	DECISION CATEGORY		
	1. Capital Investment in new Equipment			CO1
	2. Production Planning	B. Tactical Planning Decisions		
	3. Staffing	C. Strategic Decisions		
	4. Fleet Sizing 5. Marketing Campaign Planning			
Q 9	"Fact based decision making culture is imp	nent 10	CO4	
	Explain Star Schema in detail	ECTION-C		
Q 10	What are Gestalt Principles of visual perce Explain 3 Tier Data warehouse Architectu O Discuss how metrics drive behavior in an o Explain the importance of analyzing multip Informatics industry (10)	20	CO1,4	
Q 11	a) What is KN Balanced scorecard used for b) Differentiate between Business Analyst	20	CO5,3	