Name:

Enrolment No:



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

Course: Banking and Insurance Analytics

Program: B. Tech. (BAO) **Course Code: CSBI4005P**

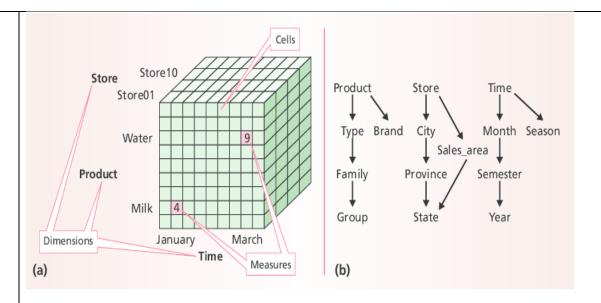
Semester: VIII Time: 03 hours

Max. Marks: 100

SECTION A

Q1	What are the two types of BI reports?						
	A. Development intelligence report and Report documents.						
	B. Development documents and analytical documents	CO ₂					
	C. Analytical reports and Operational reports						
	D. Intelligence reports and Operational reports						
Q2	State True or False: (T/F)						
	A. A vertical bar chart is sometimes called a column bar chart.						
	B. The basis of Business Intelligence is not data.						
	C. A Scatter (XY) Plot has points that show the relationship between two sets of data.						
	D. Metrics are parameters or measures of quantitative assessment used for measurement,						
	Comparison or to track performance or production. E. In a bar chart, the arc length of each slice (and consequently its central angle and area), is						
	Proportional to the quantity it represents.						
Q3	What are the characteristics of a Data Warehouse?						
	A. Subject oriented; Integrated and Non-volatile.						
	B. Subject oriented; Integrated, Time variant and Non-volatile.						
	C. Subject oriented; Time variant and Non-volatile.						
	D. Objective, Time variant; Integrated and Non-volatile.						
Q4	Server Administration is performed by?						
	A. Server Administrator.						
	B. System Administrator.	CO5					
	C. Database Administrator.						
	D. None of the above.						
Q5	What are the typical two types of organizational culture?						
	A. Autocratic and Entrepreneurial	CO5					
	B. Autocratic and Democratic						
	C. Innovative and Entrepreneurial						

	D. Automatic and Entrepren	neurial						
Q6	Define the terminology: Mobile BI and Collaborative BI.							
		SECTI	ON B					
	h question will carry 10 marks							
2. Inst	ruction: Write short / brief notes							
Q7	• Explain the terminology FSDM. (2)						CO1	
	• Explain Banking Data Warehouse architecture with the help of a suitable diagram (8)							
Q8	Define the term Business Intelligence. (2)							
	• What is analytics and explain the three types of analytics with proper example.(8)						CO ₂	
Q 9	Explain the all OLAP opera	Explain the all OLAP operations in detail with proper diagram and example. (10)						
Q10	Explain ASUG business	intelligence m	aturity mode	1. (5)				
,	• Draw the logical BI diagram and what should be included in a proof of concept.(5)							
Q11	Attempt any Question from: A or B or C. All question carries same marks (10)							
	Treempe any Question from 11 of B of 3.1111 question earlies same marks (10)							
	A. Suppose an institute offers only one diploma course on machine learning of duration 1 year. They collected some data for the past few years as given below:							
		2016	2017	2018	2019			
	Students admitted	104	116	120	100			
	Students graduated	87	92	100	75	1	CO ₃	
	Research Grants applied	3	7	6	9			
	Research Grants received	0	3	5	4			
	Total Classes	72	65	64	70			
	Total Cost	54000	60000	64000	60000			
	Faculty Training Sessions	9	7	2	5			
	To measure the institute's performance, the management decided on some 'Key Performance Indicators' (KPIs) defined as: 1) Graduation Rate: How many students graduating in that year. 2) Research Grant: Percentage of research grant received over applied.							
	3) Cost per Student: The amount of money required to educate one student.							
	Compute the KPIs for each year. Where do you think these KPIs will be used in the Kaplan-Norton Balanced Scorecard?							
	OR B. Suppose you have been given the following data cube (a) from a company and hierarchies on dimensions(b):							



Explain how cross tabulation can help to deal with the different hierarchies?

OR

C. Discuss Rayport-Jaworski performance dashboard and strategy framework and which graphs should be avoided and which should be used when and how.

CO₃

CO₂

Section C

- 1. Each Question carries 20 Marks.
- 2. Instruction: Write long answer.

And attempt any one question from question no. 12 (A or B)

Q12

A. Dealing with a BI solution architecture, you are asked to create an architecture of UPES. Explain how Centralized and Decentralized architecture will differ. Explain other alternative architectures. How can you expand UPES BI potential?

OR

B. The steps are required to plan a BI project are given in the figure below.

CO5

The company that you are working for is a stocks investment firm. How are you going forward to implement a BI project, and also discuss project planning, Project resources and project task? (P.T.O)

