Name:	W UPES
Enrolment No:	UNIVERSITY OF TOMOSPOW

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES (UPES)

End Semester Examination, May 2023

Course: Business Intelligence
Program: B-Tech – CS (BAO)
Semester: VI
Time 03 hrs.

Course Code: CSIB 387 Max. Marks: 100

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

SECTION A (5Qx4M=20Marks)

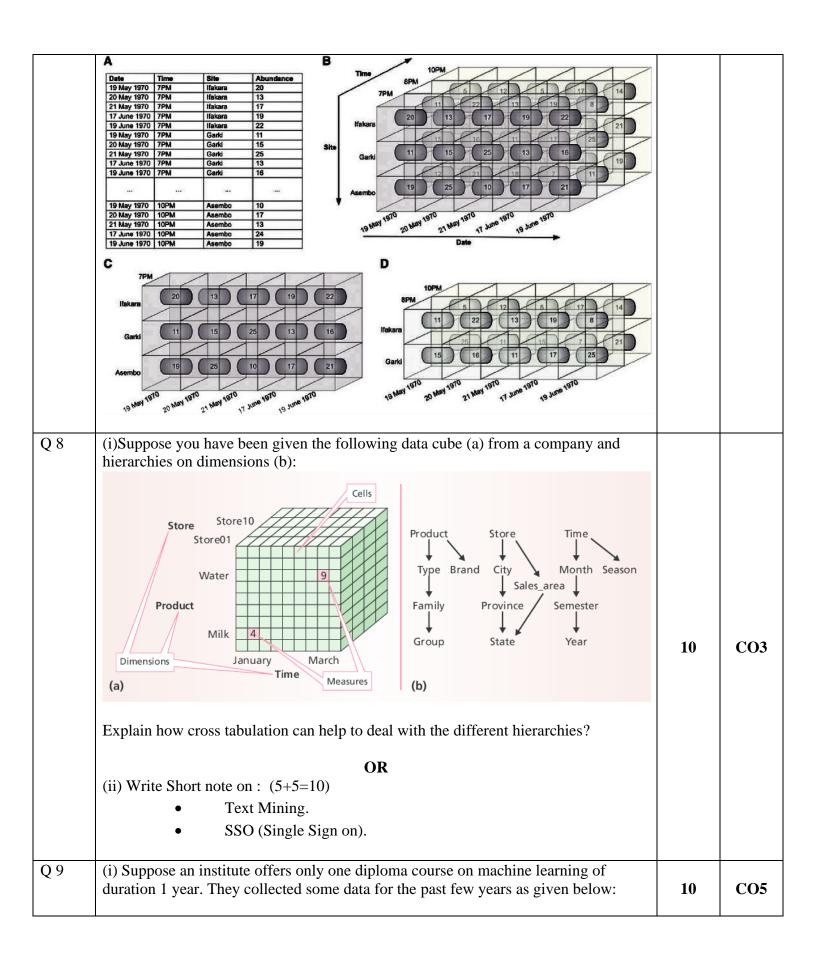
Explain max by 50-60 words wherever required. Attempt all questions from Sec A.

S. No.		Marks	CO
Q 1	Who coined the term BI? Comment on what is the future of BI.	4	CO1
Q 2	Steve Rogers is a Business Analyst and Tony Stark works as a Data Scientist in IBM. Describe how their roles differ. Do you think they will collaborate for any project taken by the company?	4	CO2
Q 3	What is decision support system? What are its three tiers?	4	CO3
Q 4	You got a dataset depicting the popularity of two graphic novels given by a critic which contains three variables. 1) Time of survey (in dd-mm-yy format) 2) Rating of 'Marvel' (in range between 0 to 10) 3) Rating of 'DC' (in range between 0 to 10) The data is collected every day since 1970. You need to graphically represent the data in a chart. What will you use? And why?	4	CO4
Q 5	Differentiate between OLAP and OLTP.	4	CO1
,	SECTION B (4Qx10M= 40 Marks) Each question will carry 10 marks. Write short / brief notes (Explain max by 100-150 words wherey	er required	`

Each question will carry 10 marks. Write short / brief notes (Explain max by 100-150 words wherever required).

There is an option for Q8 (attempt i or ii) and also there is an option for Q9 (attempt i or ii).

Q 6	What do you mean by analytics? What are its kinds? Explain each of them with proper examples.	10	CO2
Q 7	Consider the figure given below: Here, Table: A represents a data set and Table: B its corresponding data cube.	10	CO4
	What does Table: C and Table: D represent? Explain how are the Tables(C and D) are created in your own words.		C04



		2016	2017	2018	2019		
	Students admitted	104	116	120	100		
	Students graduated	87	92	100	75		
	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		
	Performance Indicators' (KPIs) 1) Graduation Rate: How m 2) Research Grant: Percenta 3) Cost per Student: The an Compute the KPIs for each year Kaplan-Norton Balanced Scorec (ii) Discuss the Gestalt's dashbo avoided and which should be use	nany students gage of research nount of mone . Where do you ard? OR ard design prined when and h	n grant receive y required to u think these nciples. Which	red over appleducate one	e student. e used in the		
(2Qx20)	M=40 Marks) Each Question ca words wherever	rries 20 Mark	ks. Instructio		_	xplain ma	x by 200
Q 10	The steps are required to plan a The company that you are wor going forward to implement a B and your own diagram with any	king for is a I project, exp	stocks invest lain the same	tment firm. e with a prop	How are you per case study	20	CO4

	Determine or revise cost estimates Ider succe Prepare project charter	nine condition cource files atabases at	Revise risk assessment Create high-level project plan	rchitecture of		
Q 11	_	•				
Q 11	UPES. Explain how Centralized and I other alternative architectures. How car	Decentralize	ed architecture will d	iffer. Explain		
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