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	Roll. No:
	NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
	(An Autonomous Institute Affiliated to AKTU, Lucknow)
	B.Tech
	SEM: VI - THEORY EXAMINATION (2022-2023)
	Subject: Business Intelligence and Data Visualization
Time: 3	
	Instructions:
	fy that you have received the question paper with the correct course, code, branch etc.
	uestion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice
	s (MCQ's) & Subjective type questions.
	um marks for each question are indicated on right -hand side of each question.
	te your answers with neat sketches wherever necessary.
	e suitable data if necessary.
•	ably, write the answers in sequential order. eet should be left blank. Any written material after a blank sheet will not be
	l/checked.
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	SECTION A 20
1. Attem	pt all parts:-
1-a.	KPI stands for(CO1) 1
	(a) Key Performance Indicators
	(b) Key Performance Identife
	(c) Key Processes Identifer
	(d) OBIEE
1-b.	is the heart of the warehouse (CO1)
	(a) Data mining database servers
	(b) Data mart database servers
	(c) Data warehouse database servers
	(d) None
1-c.	Choose which is a common way to handle missing or incomplete data in 1
	business intelligence tools (CO2)
	(a) Data mining database servers
	(b) Data mart database servers

	(c) Data warehouse database servers	
	(d) Artificial intelligence	
1-d.	Dashboard is (CO2)	1
	(a) Data mart	
	(b) Data mining	
	(c) Business intelligence	
	(d) DBMS	
1-e.	Choose from the following which is NOT a Tableau Field data type (CO3)	1
	(a) String	
	(b) Number (whole)	
	(c) Boolean	
	(d) Float	
1-f.	A measure in Tableau is (CO3)	1
	(a) A numeric field that can be aggregated	
	(b) A categorical field that cannot be aggregated	
	(c) A geographic field that can be plotted on a map	
	(d) A geographic field that can't be plotted on a map	
1-g.	Choose which is not a step in the data cleaning process (CO4)	1
	(a) Structuring the data	
	(b) Sorting the data	
	(c) Filtering the data	
	(d) Visualizing the data	
1-h.	Choose from the following which is not a sorting option in Tableau (CO4)	1
	(a) Ascending	
	(b) Descending	
	(c) Random	
	(d) Alphabetical	
1-i.	Type of data modeling in Power BI that Uses Data Analysis Expressions and similar to Excel formulas_(CO5)	1
	(a) Query	
	(b) DAX	
	(c) Model	
	(d) None	

1-j.	KPI charts are designed to the progress towards accomplishing a specific goal or target. (CO5)	1
	(a) Visualise	
	(b) Measures	
	(c) Organised	
	(d) None	
2. Atte	empt all parts:-	
2.a.	Define BI tool. (CO1)	2
2.b.	List some potential costs associated with implementing a business intelligence solution. (CO2)	2
2.c.	Assign the Hierarchy in Tableau. (CO3)	2
2.d.	Define Pivot . (CO4)	2
2.e.	Explain advantage and disadvantages of Power BI. (CO5)	2
	SECTION B	30
3. Ans	wer any <u>five</u> of the following:-	
3-a.	Explain how mobile BI contribute to the overall effectiveness of a BI solution. (CO1)	6
3-b.	Discuss how BI solutions help organizations in making better decisions. (CO1)	6
3-c.	Explain risk management and risk mitigation. (CO2)	6
3-d.	Write real world example of business intelligence Project . (CO2)	6
3.e.	Differentiate between Power BI and tableau. (CO3)	6
3.f.	Explain difference between data journalism and data storytelling with suitable example. (CO4)	6
3.g.	Explain the types of visualizations in Power BI. Explain in detail with diagram. (CO5)	6
	SECTION C	50
4. Ans	wer any <u>one</u> of the following:-	
4-a.	Describe Data Warehouse, Data mart and OLAP in detail and differentiate between them. (CO1)	10
4-b.	Describe the analytical operations that OLAP can perform. (CO1)	10
5. Ans	wer any <u>one</u> of the following:-	
5-a.	Draw the flowgraph of designing BI Project. (CO2)	10
5-b.	Explain how is SDK is interrelated to BI Tools. (CO2)	10

6. Answe	er any <u>one</u> of the following:-		
6-a.	Explain in details about data dimension and parameters in Tableau. (CO3)	10	
6-b.	Write difference between heat map and tree- map in Tableau with example (CO3)	10	
7. Answer any <u>one</u> of the following:-			
7-a.	Is Tableau for MacOS available. If yes, Justify your reason. (CO4)	10	
7-b.	State the different connections you can make with your dataset . (CO4)	10	
8. Answe	er any <u>one</u> of the following:-		
8-a.	Elaborate about Workspace in Power BI. (CO5)	10	
8-b.	Discuss how the power BI products integrate in detail. (CO5)	10	

