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	Roll. No:				
NOIDA	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA				
(An Autonomous Institute Affiliated to AKTU, Lucknow)					
	B.Tech				
	SEM: V - THEORY EXAMINATION (2023-2024)				
Time: 3	Subject: Business Intelligence and Data Visualization Hours  Max. Marks: 100				
	nstructions:				
IMP: Ver	fy that you have received the question paper with the correct course, code, branch etc.				
_	estion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice				
	(MCQ's) & Subjective type questions.  In marks for each question are indicated on right -hand side of each question.				
	te your answers with neat sketches wherever necessary.				
	suitable data if necessary.				
	bly, write the answers in sequential order.				
6. No sheet should be left blank. Any written material after a blank sheet will not be					
evaluated	спескеа.				
SECTION	<b>N-A</b> 20				
	t all parts:-				
_	KPI stands for(CO1)				
(a)					
(b)					
(c)					
(d)					
1-b.	is a category of applications and technologies for presenting and				
	analyzing corporate and external data.(CO1)				
(a)	MIS				
(b)	DIS				
(c)	EIS				
(d)	CPM				
1-c.	Dashboard, Scorecard & Reports are the part of(CO2)				
(a)	DBMS				
(b)	Data Mart				
(c)	Relational Algebra				
(d)	Data Visualisation				
1-d.	1-d. NumPy is(CO2)				
(a)	BI tool				
(b)	Map				

	(c)	Charts	
	(d)	Python Library	
1-e.	T	ableau File Extension is(CO3)	1
	(a)	twbx	
	(b)	twby	
	(c)	twbw	
	(d)	twbz	
1-f.	D	vimension in TABLEAU is (CO3)	1
	(a)	A measure that is computed based on the values of one or more dimensions	
	(b)	A column in a data source that contains categorical data	
	(c)	A data type used to represent numerical values	
	(d)	A type of join used to combine data from multiple tables	
1-g.	D	eata can be visualized using(CO4)	1
	(a)	Graphs	
	(b)	Charts	
	(c)	Maps	
	(d)	All of the above	
1-h.	D	ata visualization is also an element of the broader(CO4)	1
	(a)	Deliver presentation architecture	
	(b)	Data presentation architecture	
	(c)	Dataset presentation architecture	
	(d)	Data process archietecture	
1-i.		A customer may purchase 1 or many products. So the relationship between the ustomer table and the products table will be(CO5)	1
	(a)	One to Many	
	(b)	Many to Many	
	(c)	Many to One	
	(d)	One to One	
1-j.		Contains transactional data or facts of a business rocess(CO5)	1
	(a)	Fact table	
	(b)	Query table	
	(c)	Dimension table	
	(d)	Power BI table	
2. Att	empt a	all parts:-	
2.a.	Е	xplain importance of effective & timely decision.(CO1)	2
2.b.		pefine Software Development Kit(SDK). (CO2)	2
2.c.		ist out Tableau File Extensions.(CO3)	2

2.d.	Describe best libraries for data visualization in python.(CO4)	2
2.e.	Elaborate Power BI-Embedded.(CO5)	2
<b>SECTIO</b>	$\mathbf{N}\mathbf{-B}$	30
3. Answe	er any <u>five</u> of the following:-	
3-a.	Describe the structure of DSS with diagram.(CO1)	6
3-b.	Explain OLAP.(CO1)	6
3-c.	Explain Risk Mitigation with suitable diagram.(CO2)	6
3-d.	Difference between drill down and drill up procedure.(CO2)	6
3.e.	Describe in detail about Tableau Treemap.(CO3)	6
3.f.	Write the step by step procedure of Sharing visualization in Tableau Online.(CO4)	6
3.g.	List and explain five Data Visualization tools.(CO5)	6
<b>SECTIO</b>	<u>N-C</u>	50
4. Answe	er any one of the following:-	
4-a.	Describe BI architecture in detail.(CO1)	10
4-b.	Differentiate between Business Intelligence and Business Analytics in detail with example .(CO1)	10
5. Answe	er any one of the following:-	
5-a.	Describe information gathering procedure of BI with example .(CO2)	10
5-b.	Describe the role of BI developer in Business Intelligence.(CO2)	10
6. Answe	er any one of the following:-	
6-a.	Describe the basic charts used in Tableau with diagrams in detail.(CO3)	10
6-b.	Describe about TABLEAU products.(CO3)	10
7. Answe	er any one of the following:-	
7-a.	Explain step by step procedure of exporting files in Tableau. (CO4)	10
7-b.	Describe the difference between TABLEAU and Power BI in detail. (CO4)	10
8. Answe	er any one of the following:-	
8-a.	Discuss the Power BI ecosystem in detail.(CO5)	10
8-b.	Describe about the three views on the Power BI desktop. Explain with suitable diagram.(CO5)	10

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