Printed F	Page:- 04	Subject Code:- ACSAI0519				
		Roll. No:				
ı	NOIDA INSTITUTE OF ENGINEERING	AND TECHNOLOGY, GREATER NOIDA				
(An Autonomous Institute Affiliated to AKTU, Lucknow)						
	B.Tech					
SEM: V - THEORY EXAMINATION DEC - 2023						
Time: 3	Subject: Business Intelliger	nce and Data Visualization  Max. Marks: 100				
	Instructions:	iviax. iviai k5. 100				
		per with the correct course, code, branch etc.				
-		cions -A, B, & C. It consists of Multiple Choice				
	(MCQ's) & Subjective type questions.					
2. Maximum marks for each question are indicated on right -hand side of each question.						
<b>3.</b> Illustra	te your answers with neat sketches where	ever necessary.				
<b>4.</b> Assume	e suitable data if necessary.					
•	ıbly, write the answers in sequential orde					
	•	n material after a blank sheet will not be				
evaluated	l/checked.					
	SECTIO	N A 20				
1. Attem	pt all parts:-					
1-a.	Choose from the following which doe	s not form part of BI Stack in SQL Server 1				
	(CO1)					
	(a) SSIS					
	(b) OBIEE					
	(c) SSAS					
	(d) None					
1-b.	is a category of applicatio	ns and technologies for presenting and 1				
	analyzing corporate and external data					
	(a) EIS					
	(b) MIS					
	(c) Data warehouse					
	(d) Decision power					
1-c.	NumPy is (CO2)	1				
	(a) BI tool	·				
	(4) 51 (00)					

	(b) Map
	(c) Charts
	(d) Python Library
1-d.	is a system where operations like data extraction, transformation 1 and loading operations are executed.(CO2)
	(a) Data staging
	(b) Data integration
	(c) ETL
	(d) None of the above
1-e.	Dimension in TABLEAU is (CO3)
	(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-f.	The type of join used in blending is (CO3)
	(a) NONE
	(b) Right join
	(c) LEFT join
	(d) OUTER JOIN
1-g.	The benefits of data visualization is (CO4)
	(a) Better analysis
	(b) Identifying patterns
	(c) Exploring business insights
	(d) All of the above
1-h.	A is a line that provides an approximation of the relationship between the 1
	variables. (CO4)
	(a) sparkline
	(b) gridline
	(c) trendline
	(d) None of these
1-i.	A function that can only work on numeric fields is(CO5)
	(a) ISNUMBER

	(c) AND	
	(d) CONCATENATE	
1-j.	The expression used to indicate the table where the values would be searched from is (CO5)	1
	(a) WHERE	
	(b) FROM	
	(c) TABLE	
	(d) SELECT	
2. Atte	empt all parts:-	
2.a.	Discuss the advantages of making decision using business intelligence over making decision without business intelligence.(CO1)	Ź
2.b.	Define Software Development Kit(SDK). (CO2)	2
2.c.	Enlist the various data file formats in TABLEAU.(CO3)	2
2.d.	Write down the steps to publish visualization in TABLEAU online.(CO4)	2
2.e.	Elaborate about Workspace in Power BI.(CO5)	2
	SECTION B	30
3. Ans	wer any <u>five</u> of the following:-	
3-a.	Explain in detail the features of Data Warehouse.(CO1)	6
3-b.	Define data mining and its application in Business Intelligence.(CO1)	6
3-c.	Explain Risk Mitigation with suitable diagram.(CO2)	6
3-d.	Differentiate between dashboard and scorecard in detail.(CO2)	6
3.e.	State some ways to improve the performance of Tableau.(CO3)	6
3.f.	Discuss the various ways in which data can be manipulated in TABLEAU.(CO4)	6
3.g.	Describe how the Power BI products integrate.(CO5)	6
	SECTION C	50
4. Ans	wer any <u>one</u> of the following:-	
4-a.	Discuss the architecture and the various components of BI with help of diagram.(CO1)	10
4-b.	Differentiate between BI traditional tools with Modern BI tools in detail.(CO1)	10
5. Ans	wer any <u>one</u> of the following:-	
5-a.	Discuss the need of Business Intelligence Reporting Tools in various business with suitable examples.(CO2)	10

(b) AVERAGE

5-b.	Discuss the various trends and technologies used in Business Intelligence.(CO2)	10		
6. Answer any <u>one</u> of the following:-				
6-a.	Explain in detail the various ways to connect your data to TABLEAU.(CO3)			
6-b.	Describe the various types of charts used in TABLEAU with suitable diagrams.(CO3)	10		
7. Answer any <u>one</u> of the following:-				
7-a.	Discuss in detail the steps to create a story and dashboard in TABLEAU.(CO4)	10		
7-b.	Explain the steps of sorting and filtering data in TABLEAU.(CO4)	10		
8. Answer any <u>one</u> of the following:-				
8-a.	Discuss the Power BI ecosystem in detail.(CO5)	10		
8-b.	Define Power BI and its relationship with Excel in detail.(CO5)	10		

