Printed Page:-04		Subject Code:- ACSAI0619 Roll. No:						
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		B.Te			-011)			
		SEM: VI - THEORY EXAM	IINATION (2	0 24 - 20 2	5)			
		Subject: Business Intelligen	ce and Data V	isualizati	on			
		Hours			Ma	ax. Ma	ırks	: 100
		structions:					_	
		fy that you have received the question po	-					
		estion paper comprises of three Sections (MCO's) & Subjective two questions	S -A, B, & C. 1	t consists	of Multi	pie Cr	юісе	
_		'MCQ's) & Subjective type questions. m marks for each question are indicated	l on right -han	d side of e	ach au	ection		
		e your answers with neat sketches where	Ü	v	асп дие	siion.		
		suitable data if necessary.	ver necessary.	•				
		oly, write the answers in sequential orde	r.					
		should be left blank. Any written mater		ık sheet w	ill not b	e		
evalu	ated/c	checked.						
SEC'	TION:	<u>-A</u>			X			20
1. At	tempt a	all parts:-						
1-a.	D	Oata Mart is (CO1,K2)						1
	(a) A subset of a data warehouse that is		ocused on a sp	ecific bus	iness fu	nction	or	
	department							
	(b)	A tool for analyzing data						
	(c)	A data visualization tool						
	(d)	A technique for managing data qualit	V					
1-b.	` '	The main purpose of a BI architecture is						1
1 0.	(a)	To store and manage data	(001,112)					•
	(b)	To visualize data						
	(c)	To generate reports						
	(d)	To support decision-making						
1-c.		Choose which is not a commonly used dentelligence tools (CO2,K1)	ata visualizatic	on type in	busines	S		1
	(a) depa	A subset of a data warehouse that is f artment	focused on a sp	ecific bus	iness fu	nction	or	
	(b)	A tool for analyzing data						
	(c)	A data visualization tool						
	(d)	A technique for managing data qualit	.y					
1-d.	` ,	Risk Mitigation is (CO2,K2)	•					1
	1/							1

	(a)	OLAP engine				
	(b)	Data warehouse				
	(c)	ETL tool				
	(d)	Data mart				
1-e.	The file formats that can be connected to Tableau (CO3,K1)					
	(a)	Excel, CSV, Text file, Access database				
	(b)	PowerPoint, Word, PDF, JPG				
	(c)	XML, JSON, HTML, SQL Server				
	(d)	none				
1-f.	The primary function of the SUM function in Tableau is (CO3,K2)					
	(a)	It calculates the total of all values in a selected field				
	(b)	It calculates the average of all values in a selected field				
	(c)	It calculates the minimum value in a selected field				
	(d)	It calculates the maximum value in a selected field				
1-g.	C	Choose which is not a step in the data cleaning process (CO4,K2)				
	(a)	Structuring the data				
	(b)	Sorting the data				
	(c)	Filtering the data				
	(d)	Visualizing the data				
1-h.	The Data Interpreter in Tableau is used for: (CO4,K1)					
	(a)	Creating visualizations				
	(b)	Cleaning up data				
	(c)	Connecting to data sources				
	(d)	None of the above				
1-i.		A customer may purchase 1 or many products. So the relationship between the	1			
	Cl	ustomer table and the products table will be(CO5,K2)				
	(a)	One to Many				
	(b)	Many to Many				
	(c)	Many to One				
	(d)	One to One				
1-j.	A	function that can only work on numeric fields is(CO5,K2)	1			
	(a)	ISNUMBER				
	(b)	AVERAGE				
	(c)	AND				
	(d)	CONCATENATE				
2. Att	empt a	all parts:-				
2.a.	D	refine real time Business Intelligence.(CO1,K1)	2			
2.b.	L	ist some common components of a dashboard.(CO2,K1)	2			

2.c.	State some ways to improve the performance of Tableau. (CO3,K2)	2
2.d.	Define the procedure a good data visualization.(CO4,K1)	2
2.e.	Mention the important features of Power BI.(CO5,K1)	2
SECTI	ON-B	30
3. Answ	ver any <u>five</u> of the following:-	
3-a.	Explain how mobile BI contribute to the overall effectiveness of a BI solution. (CO1,K1)	6
3-b.	Discuss the characteristics of Data Warehouse.(CO1,K2)	6
3-c.	Describe the different stages of the business intelligence projects.(CO2,K2)	6
3-d.	Differentiate between scoreboard and Dashboard with an example.(CO2,k2)	6
3.e.	Discuss the Show Me panel in Tableau and how can it be used to create visualizations.(CO3,K3)	6
3.f.	Describe how storytelling can be used when creating dashboards to enhance user engagement and decision-making. What key elements should be included to ensure an effective data story?(CO4,K3)	6
3.g.	Define Power BI Cloud. Explain in detail with example.(CO5,K1)	6
SECTI	<u>ON-C</u>	50
4. Answ	ver any one of the following:-	
4-a.	Differentiate between OLAP and OLTP. Explore the parameters that supports the performance management parameters for the senior executives.(CO1,K2)	10
4-b.	Explain the main components of a Business Intelligence (BI) system and describe how they interact within the BI architecture to support effective decision-making in an organization.(CO1,K2)	10
5. Answ	ver any <u>one</u> of the following:-	
5-a.	Discuss the potential risks associated with business intelligence, and how can they be mitigated.(CO2,K1)	10
5-b.	Explain the concept of drill-up and drill-down in data visualization and analysis. How do these activities enhance data exploration? Provide examples of when and why you would use drill-up and drill-down in a business intelligence report.(CO2,K2)	10
6. Answ	ver any one of the following:-	
6-a.	Describe the Purpose of Creating the custom calculations in the Tableau and differentiate between SUM and AVG Function.(CO3,K2)	10
6-b.	Discuss some advanced features of Tableau that can help you create more complex visualizations and analyze data more deeply.(CO3,K2)	10
7. Answ	ver any <u>one</u> of the following:-	
7-a.	Write the step by step procedure to create data storytelling in Tableau .(CO4,K2)	10
7-b.	Define the different Tableau file types and publishing of the Tableau Online. (CO4 K1)	10

8. Answer any one of the following:-

Describe Slicer in Power BI and connection procedure of the data source in 8-a. 10 it.(CO5,K2)

Describe about the three views on the Power BI desktop. Explain with suitable 8-b. diagram.(CO5,K2)

10

