Printed P	Page:- 04	Subject Code:- ACSAI0519
11111001		Roll. No:
NO	IDA INSTITUTE OF ENGINEERING A	AND TECHNOLOGY, GREATER NOIDA
	(An Autonomous Institute Af	
	B.T	
	SEM: V - THEORY EXAM	· · · · · · · · · · · · · · · · · · ·
Time	Subject: Business Intellige	
	3 Hours Instructions:	Max. Marks: 100
		paper with the correct course, code, branch etc.
		is -A, B, & C. It consists of Multiple Choice
_	as (MCQ's) & Subjective type questions.	J
2. Maxin	num marks for each question are indicate	ed on right -hand side of each question.
	ate your answers with neat sketches whe	rever necessary.
	ne suitable data if necessary.	
v	ably, write the answers in sequential ord	
	eet should be left blank. Any written mate d/checked.	rial after a blank sheet will not be
evaiuaie	л/спескей.	
SECTION-A		
1. Attem	pt all parts:-	
1-a.	KPI stands for(CO1,K1)	1
(8	a) Key Performance Indicators	
(ł	b) Key Performance Identife	
`	c) Key Processes Identifer	
`	d) OBIEE	
1-b.	Data warehouse architecture is based or	n(CO1,K2)
	a) RDBMS	
`	b) Sybase	
`	c) SQL Server	
`	d) data warehouse	
`		ry? (CO2,K1) 1
1-c.	.Which of the following is python library	.y: (CO2,K1)
`	a) Pandas.	
`	b) Matplotlib.	
`	e) PyTorch	
(0	d) All of the above	
1-d.	The general term for information about is(CO2,K2)	databases and the objects in MySQL 1
(2	a) Datum	
`	h) Info	

	(c)	Record			
	(d)	Metadata			
1-e.	T	ableau File Extension is(CO3,K1)	1		
	(a)	twbx			
	(b)	twby			
	(c)	twbw			
	(d)	twbz			
1-f.	What are Traditional BI Tools features ?(CO3,K1)				
	(a)	multi-thread,			
	(b)	multi-core computing.			
	(c)	multi tasking			
	(d)	All of these			
1-g.	Н	fow can you clean data?(CO4,K2)	1		
	(a)	Data Visualization			
	(b)	Data Interpreteur			
	(c)	Both A and B			
	(d)	None of these			
1-h.	D	Data visualization tools provide an accessible way to see and understand			
	•••	in data.(CO4,K2)			
	(a)	Trends			
	(b)	Outliers			
	(c)	Patterns			
	(d)	All of the above			
1-i.		Type of data modeling in Power BI that Uses Data Analysis Expressions and	1		
		milar to Excel formulas(CO5,K3)			
	(a)	Query			
	(b)	DAX			
	(c)	Model			
	(d)	None			
1-j.	W	Which of the following illustrates a Many to One relationship?(CO5,K2)	1		
	(a)	Many banana trees planted in more than 1 garden			
	(b)	1 banana tree having many bananas on the tree			
	(c)	Many gardens having no banana trees			
_	(d)	Many banana trees planted in a garden			
2. Att	-	all parts:-			
2.a.		ist and explain different phases of business intelligence system.(CO1,K2)	2		
2.b.		offferentiate between Mobile Business Intelligence and Business Intelligence.(CO2,K2)	2		

2.c.	List out different File Extensions used in Tableau for performing the data visualization. (CO3,K3)	2
2.d.	How do you connect a data source to Tableau?(CO4,K1)	2
2.e.	Name 4 Software's used for the Data Visualization.(CO5,K1)	2
SECTI	ION-B	30
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	Explain the characteristics of the information in terms of the scope of decision. Differentiate between Data and information. (CO1, K1)	6
3-b.	Differentiate between data mining and OLAP and OLTP. (CO1, K2)	6
3-c.	Define KPI and explain how it can be used in scoreboard creation. (CO2, K3)	6
3-d.	How can you design a BI Project? Write the step-by-step procedure of it. (CO2, K2)	6
3.e.	Explain the "Show Me" panel in Tableau, and how does it help you create different types of visualizations quickly and efficiently?.(CO3,K3)	6
3.f.	Why is it important for data scientists to focus on storytelling and presentation skills? Justify your answer with example. (CO4, K3)	6
3.g.	Explain the Typical Analytics Business flow. (CO5, K2)	6
SECTI	ION-C	50
4. Ansv	wer any <u>one</u> of the following:-	
4-a.	Describe the key components of a Business Intelligence system, and how do they interact to facilitate	10
	data analysis and reporting?(CO1, K3)	
4-b.	Describe Data Visualization in Business Intelligence? Explain with suitable example. (CO1, K2)	10
5. Ansv	wer any <u>one</u> of the following:-	
5-a.	How do automated tasks and events help streamline reporting processes in BI systems, and what are some common use cases for automation? (CO2,K2)	10
5-b.	Explain the drill-up and drill-down capabilities in BI reporting, and how do they enable users to explore data at different levels of granularity? (CO2, K3)	10
6. Ansv	wer any <u>one</u> of the following:-	
6-a.	Define the maximum number of formatting options available in Tableau for editing and adjusting the axes of a chart, and how many of them can be applied to a single axis? (CO3, K3)	10
6-b.	Explain the difference between Tableau Worksheet, Dashboard, Story and Workbook.(CO3,K3)	10
7. Ansv	wer any <u>one</u> of the following:-	
7-a.	If you have a dataset with 10,000 rows and 15 columns in Tableau, and you use the Data Interpreter to clean the data, how many columns could potentially be removed or restructured to prepare the data for analysis? When pivoting data in	10

- Tableau, how many columns can you select at a time for pivoting if the dataset has 12 columns? Explain any two filters available in Tableau. (CO4, K4)
- 7-b. How do the Detail, Size, and Tooltip panels contribute to the effectiveness of a Tableau visualization, and what are some practical examples of using them in a dashboard? (CO4, K3)
- 8. Answer any one of the following:-
- 8-a. Discuss the Power BI Suit of the Products and define the significance of each product. (CO5, K3)
- 8-b. When transforming data in Power BI using Power Query, if you are cleaning 10 100,000 rows of data and applying 5 different transformation steps, how many steps would be involved in transforming the dataset? Explain the different steps of connecting power BI to a data source. (CO5, K4)

REG. WILLY DEC. 2024