Printed Page:- 03			Subject Code:- ACSDS0603								
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		В.Т			,		,				
		SEM: VI - THEORY EXAM		(2023	3 - 202	24)					
<b></b>	2.1	Subject: Dat	ta Analytics				ъ.	er 19	. <b>/</b> r 1		100
	ie: 3 F	iours structions:					IV.	Iax. N	viar	KS:	100
		y that you have received the question p	paper with th	ne cor	rect c	ours	se. co	ode. b	ran	ch	etc.
		stion paper comprises of three Section	_								
		MCQ's) & Subjective type questions.									
		n marks for each question are indicate	-		side o	f eac	ch qu	iestio	n.		
		your answers with neat sketches whe uitable data if necessary.	rever necesso	ary.							
		ly, write the answers in sequential ord	ler.								
	,	should be left blank. Any written mate		olank	sheet	will	not	be			
		hecked.	v								
<b>SECT</b>	TION-	$-\mathbf{A}$									20
1. Att	empt a	all parts:-									
1-a.	A	collection of information about a rela	ated topic is r	eferre	ed to	as a_					1
	((	CO1)		V							
	(a)	Visualisation									
	(b)	Analysis									
	(c)	Conclusion									
	(d)	Data									
1-b.	3	V's are not sufficient to describe big d	lata.(CO1)								1
	(a)	TRUE									
	(b)	FALSE									
1-c.	W	Thich data is cheaper to collect?(CO2)									1
	(a)	Primary Data									
	(b)	Secondary Data									
	(c)	New Data									
	(d)	Collective data									
1-d.	W	Thich level of measurement has a zero	point of orig	gin?(C	CO2)						1
	(a)	Nominal									
	(b)	Ratio									
	(c)	Interval									
	(d)	Ordinal									

1-e.	W	That are the different types of attributes?(CO3)	1
	(a)	Nominal	
	(b)	Ordinal	
	(c)	Spacial	
	(d)	All of the above	
1-f.	W	Thich is not a data cleaning method?(CO3)	1
	(a)	Binning	
	(b)	Clustering	
	(c)	Regression	
	(d)	Aggregation	
1-g.		is a tool which is used to reduce the dimensions of the data(CO4)	1
	(a)	Principal component analysis	
	(b)	Product Component analysis	
	(c)	Pre Complex analysis	
	(d)	None of the above	
1-h.	W	Thich of the following is not an example of a time series model? (CO4)	1
	(a)	Naïve approach	
	(b)	Exponential smoothing	
	(c)	Moving Average	
	(d)	None of the above	
1-i.	W	There can we apply global filters?(CO5)	1
	(a)	Dashboards	
	(b)	Stories	
	(c)	Sheets	
	(d)	All the above	
1-j.	T	he most popular data visualization library in python is(CO5)	1
	(a)	matinfolib	
	(b)	matplotlib	
	(c)	matpiplib	
	(d)	pip	
2. Att	empt a	all parts:-	
2.a.	V	That is structured data? (CO1)	2
2.b.	W	Thy do we use data dimension reduction in some cases? justify it (CO2)	2
2.c.	Jι	stify the term Regression (CO3)	2
2.d.	D	siscuss two methods to handle missing data(CO4)	2
2.e.		ist some features of Tableau (CO5)	2
SEC.	ΓΙΟΝ-		30

3. Answ	er any <u>five</u> of the following:-	
3-a.	Explain the role of Data Science in various fields.(CO1)	6
3-b.	Describe the libraries in Python used for Data Analysis and Scientific Computations.(CO1)	6
3-c.	Why do we need Data Manipulation Tools? justify it with example (CO2)	6
3-d.	How do social networks collect data? (CO2)	6
3.e.	Explain the five stages of transforming data into information. (CO3)	6
3.f.	Explain in detail how does python handle missing data and outliers ? (CO4)	6
3.g.	How Can You Optimize the Performance of a Dashboard? justify it. (CO5)	6
<b>SECTIO</b>	<u>DN-C</u>	50
4. Answ	er any <u>one</u> of the following:-	
4-a.	Explain in detail about Nature of Data and its applications. (CO1)	10
4-b.	Explain the various risks of Big data.(CO1)	10
5. Answ	er any <u>one</u> of the following:-	
5-a.	Describe dimensionality. Explain high dimensional data with examples.(CO2)	10
5-b.	Write various characteristics of a good data model. (CO2)	10
6. Answ	er any <u>one</u> of the following:-	
6-a.	Explain the steps involved in data transformation.(CO3)	10
6-b.	How can data be reduced? Explain in detail. (CO3)	10
7. Answ	er any <u>one</u> of the following:-	
7-a.	Describe multicollinearity. Differentiate between covariance and correlation. How are these terms related with each other?(CO4)	10
7-b.	Differentiate between graphical and non-graphical exploratory data analysis.(CO4)	10
8. Answ	er any <u>one</u> of the following:-	
8-a.	Explain six different categories of Tableau Filters.(CO5)	10
8-b.	Explain Bar charts in Tableau. What are the different kinds of Bar Charts? (CO5)	10