	18CSE396T	- DA	ATA SCIENCE			
	(For the candidates admitted during	the a	cademic year 2018-2019 to 2021-20.	22)		
Note:	,					
(i)	<b>Part - A</b> should be answered in OMR sheet to hall invigilator at the end of 40 <sup>th</sup> minute.	with	in first 40 minutes and OMR sheet si	hould be	hand	ded ov
(ii)	Part - B & Part - C should be answered in	answe	er booklet.			
Γime: 3	hours		M	lax. Ma	rke	100
i iiiic. 5	inours .		14.	ian. Ivia	IKS.	100
	$PART - A (20 \times 1 =$	20 M	(arks)	Marks	BL	co
	Answer ALL Qu	estio	ns			
1.	Who represents the business interests of	f the 1	project?	1	1	1
	(A) Project sponsor	(B)	Client			
	(C) Data scientist	(D)	Data architect			
2	The process of learning to order items is	refe	rred as	1	1	1
۷.	(A) Ranking		Scoring			
	(C) Characterizing	. ,	•			
	(C) Characterizing	(D)	Classifying			
3.	Which operator assigns the value on the	righ	t to the symbol on the left?	1	1	1
	(A) ←	(B)	= -			
	(C) →	(D)	#			
4.	The process of handling invalid or missi	ing v	alues is referred as	1	1	1
	(A) Data cleaning	-	Data exploration			
	(C) Data staging	` '	Data warehousing			
5	Which of the following is not a data also	:	tochmique?	- 1	1	2
3.	Which of the following is not a data clear	_	-	i	-	-
		, ,	Removing missing values			
26	(C) Scaling the data	(D)	Handling outliers			
6.	is the process of identifying the	prob	lem and define the objectives and	d 1	1	2.
	scope of the model.					
	(A) Schedule	` /	Model deployment			
	(C) Evaluation	(D)	Model planning			
7.	What is the first step in model planning	proce	ess?	1	1	2
	(A) Collecting data		Defining the problem			
	(C) Selecting the modelling technique	(D)	Preparing the data			
8.	is the most commonly used visu	aliza	tion for data exploration.	1	1	2
	(A) Histogram	(B)	Pie chart			
	(C) Bar chart	(D)	Chart			
9.	What is the shape of two dimensional ar	тау v	vith N rows and M columns?	1	1	3
	(A) (N, M)		(M, N)			
	(C) $(N+M)$		(N-M)			
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Reg. No.							

## B.Tech. DEGREE EXAMINATION, MAY 2023 Fifth & Sixth Semester

	1000E3701 BITTITE CLEICEE					
	(For the candidates admitted during the academic year 2018	2-2019 to 202	1-2022)			
Note:						
(i)	<b>Part - A</b> should be answered in OMR sheet within first 40 minutes to hall invigilator at the end of 40 <sup>th</sup> minute.	and OMR sh	eet should be	hand	ded o	)V(
(ii)	Part - B & Part - C should be answered in answer booklet.					
Time: 3	hours		Max. Ma	rks:	100	
	$PART - A (20 \times 1 = 20 Marks)$		Marks	BL	co	P
	Answer ALL Questions					
1.	Who represents the business interests of the project?  (A) Project sponsor  (B) Client	1	1	1		
1.	(A) Project sponsor (B) Client					

10.	Which of the following is a valid method (A) []	od to access a data frame column in R?  (B) [[ ]]	1	1	3	1	22.	Explain the process of managing data.	4	1	- 1	
	(C) {}	(D) (}					23.	Briefly discuss abut data exploration.	4	1	2	
11.	What is the default ordering or levels in		1	I	3	1	24.	Define precision, recall, accuracy and sensitivity with its formula.	4	2	<u>'</u> 4	
	<ul><li>(A) Alphabetical order</li><li>(C) Random order</li></ul>	<ul><li>(B) Numeric order</li><li>(D) No default ordering</li></ul>					25.	Briefly discuss about DOT chart.	4	2	5	
12.	Which of the following R functions is statistic for a contingency table?	used to calculate the Chi-squared test	1	1	3	1	26.	Explain structures and semi-structured data.	4	2	1	
	(A) Chisq.test () (C) Cor.test ()	(B) T.test() (D) Chi.test()					27.	Discuss about hypotheses testing.	4	2	3	:
13.	The proportion of correct predictions as  (A) Accuracy	(B) Precision	1	1	4	1		PART – C ( $5 \times 12 = 60$ Marks) Answer ALL Questions	Marks	BL	CO	P
	(C) Recall	(D) Sensitivity					28. a.	Illustrate the relational and non relational database with an example.	12	2	1	:
14.	A method for predicting continuous var (A) Linear regression	riables is called (B) Clustering	1	1	4	I		(OR)				
	(C) Classification	(D) Dimensionality reduction				F:	b.	Describe in detail about the roles in a data science project.	12	2	1	
-15.	What is logistic regression used for?  (A) Regression analysis  (C) Clustering	<ul><li>(B) Classification analysis</li><li>(D) Normalization</li></ul>	1	1	4	2		Explain in detail about model building and common tools for the model building phase.	12	1	2	:
								(OR)				
16.	What is the equation of simple linear re (A) $y = mx + b$ (C) $y = ax + b$	(B) $y = mx + c$	1	1	4	2		Briefly discuss about data preparation and the common tools involved in data preparation phase.	12	1	2	;
		(D) $y = ax + c$						Explain in detail about array, matrices, data frames and list using R function	12	2	3	:
17.	The quantity to be predicted is called _		1	1	5	1		as an example.				
	(A) Row (C) Buzz	(B) Column (D) Topic						(OR)		: 4		
	24.1						b.	Describe in detail about student-T-test and differences of means.	12	2	3	
18.	Each represents many different technical personal computer discussion	nt measurements of the popularity of a topic	1	1	5	2	31. a.	Briefly discuss the method of mapping problems to machine learning.	12	2	4	:
	(A) Topic	(B) Row						(OB)				
	(C) Measurement	(D) Times					b.	(OR) Explain logistic regression with an example.	12	2	4	:
19.	With cache = false the code is always		1	1	5	3		The state of the s				
	(A) Terminated (C) Executed	(B) Run (D) Copied					32. a.	<ul> <li>Explain the following</li> <li>(i) Presenting your model to end user</li> <li>(ii) Presenting your work to other data scientist</li> </ul>	12	3	5	ic iš
20.		ode is copied in to the document.	1	1	5	1						
	(A) Cache (C) Eval	(B) Echo (D) Message						(OR) Briefly discuss about visualizing a single variable and examining multiple variables.	12	3	5	;
	PART – B (5 × Answer ANY F	4 = 20 Marks) TIVE Questions	Marks	BL	CO I	PO		* * * *				
21. Explain any two stages in data science project.			4	1	1	2		* * * * * *				
		project.										

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