(2 hours)

[Total Marks: 50]

N. B.	 (1) All questions are compulsory. (2) Make suitable assumptions wherever necessary and state the assumptions made. 	
	(3) Answers to the same question must be written together.	
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculators is allowed.	
1.	Attempt any two of the following:	10
a.	Discuss the rules of European Union General Data Protection Regulation (GDPR).	
	Enumerate the general rules for data source catalog.	
سبعما	Explain hypothesis testing, t-test and chi-square test with respect to data science.	
سبلب	Explain the organize superstep with suitable example.	
2	Attempt any two of the following:	10
02.	How will you use MoSCoW prioritization technique in Data Science Projects?	
b~	If a Data Science ecosystem does not have a proper structure for data storage, then	
	which eco-system will be preferred, Schema-on-Write or Schema-on-Read? Give	
	reasons.	
Je.	Explain Cross-Industry Standard Process for Data Mining (CRISP-DM).	
d.	What do you mean by slowly changing dimensions? Explain different types of slowly	
	changing dimensions with suitable examples.	
3.	Attempt any two of the following:	10
a.	Explain the different types of watchers.	
برل.	State and explain the five fundamental steps of the data science process.	
C.	Explain the retrieve superstep.	
d	How will you avoid data swamps? Explain four critical steps.	
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4./		10
_a/	Explain local time and Universal Coordinated time.	
Jb.	What is Fishbone Diagram? Explain with example.	
c.	Explain Person Hub in Time-Person-Object-Location-Event Data Vault. Which are	
	the different Person Links created?	
d	Create the following Sun Models:	
. ***	a. Person-to-Time	
	b. Person-to-Object	
	c. Person-to-Location	
	d. Person-to-Event	
	선물 가장 사람들이 가장 살아 보다 살아 되었다.	

Attempt <u>any two</u> of the following: How are the results of data science summarized? Explain. Explain Andrews' curves with their use in data science. 6.

What do you mean by Clustering? Explain any two types of Clustering? Differentiate between Univariate, Bivariate and Multivariate Analysis. d.

a.

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