	(2 hours)	
	[Total Marks: 5	0]
N. E	 3.: (1) <u>All</u> questions are <u>compulsory</u>. (2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> may (3) Answers to the <u>same question</u> must be <u>written together</u>. (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 <u>Non-programmable</u> calculators is <u>allowed</u>. 	le.
1.	Attempt any two of the following:	10
a.	Explain spark as a data science processing tool.	
ь.	State and explain the four critical steps to avoid data swamps.	
c.	Explain the Person section of Time-Person-Object-Location-Event (TPOLE).	
d.	Explain Report Superstep.	
2.	Attempt any two of the following:	10
a.	What is data science? Explain Data lake.	
b.	Explain the functional layer R-A-P-T-O-R framework.	
c.	Write short note on Hub, and Satellite with data vault context	
d.	Explain Akka What are the data science processing tools.	
3.	Attempt any two of the following:	10
э. а.	Explain the training the trainer model.	10
b.	Explain five fundamental data science process steps.	
c.	Explain the different ways to deal with errors.	
d.	Explain the Drum-Buffer-Rope scheduling methodology.	
4.	Attempt any two of the following:	10
a.	Explain Person-to-Time Sun Model.	
b.	Explain Overfitting and Underfitting.	
c.	Explain Hypothesis testing with the help of T-test.	
d.	Why data has missing values? Explain missing value treatment in transforming with	
	data science.	
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5.	Attempt any two of the following: Describe the Linear regression and logistic regression.	10
а. b.	Explain ANOVA in data science	
c.	Write short note on clustering techniques.	
d.	Explain organize superstep in data science.	
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