## SPPU-TE-COMP-CONTENT - KSKA Git

Total No	. of Questions : 8]	SEAT No.	.:
P812	1587	70] - 1133 [Tot	al No. of Pages : 2
	<u>.</u>	uter Engineering)	
	` -	D BIG DATA ANALYTI	CS
	(2019 Pattern) (S	Semester - II) (310251)	
	/2 Hours] ons to the candidates:		[Max. Marks : 70
<i>1)</i>	Answer Q.1 or Q.2, Q.3 or Q.4,	Q.5 or Q.6, Q.7 or Q.8.	
1)	Neat diagrams must be drawn w	henver necessary.	
2)	Figures to the right side indicat		
3)	Use of logarithmic tables slide	rule, mollier charts, electronic	pocket calculator
4)	and steam tables is allowed.		
4)	Assume suistable data, if necess	ary.	
<b>Q1)</b> a)	What is driving data deluge	? Explain with one example.	[9]
<b>Q1</b> ) a)	what is driving data deluge	: Explain with one example.	ارا
b)	What is data science? Diff	ferentiate between Business	Intelligence and
,	Data Science.	60.	[9]
		3) 2:?	F 1
		OR	
<b>Q2)</b> a)	What are the sources of Bi	is Data Explain model buil	ding phase with
	example.	4 6	[9]
• .			****
b)		s architecture with diagran	n. What is data
	discovery phase. Explain w	ith example.	[9]
	6.		
<b>Q3)</b> a)	Explain various data pre-	processing steps. Discuss e	essential python
<b>20)</b> (1)	libraries for preprocessing.		[8]
	notation for proper commig.		, , , , , , , ,
b)	What are association rules?	Explain Apriori Algorithm	in brief. [9]
		OR OR	S <sup>v</sup>
04)	E 1:41 C11 :		
<b>Q4)</b> a)	Explain the following		
	i) Linear Regression		
	i, Emedi Regiossion	OR CHARLES	
	ii) Logistic Regression	6.	[8]
	, 2		
b)	Explain scikit-learn library	for matplotlib with example.	[9]
		2)	<i>P.T.O.</i>

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Q5)	a)	Write short note on	
		i) Time series Analysis	
		ii) TF - IDF.	[9]
	b)	What is clustering? With suitable example explain the steps involve	d in
		k - means algorithm.  OR	[9]
<b>Q6</b> )	a)	Write short note on	
		i) Confusion matrix	
		ii) AVC - ROC curve	[9]
	b)	Discuss Holdout method and Random Sub Sampling methods.	[9]
	1	Ø	
<b>Q</b> 7)	a)	With a suitable example explain Histogram and explain its usages.	[8]
	b)	Describe the Data visualization tool "Tableau". Explain its application	
		in brief.	[9]
		OR	3
Q8)	a)	With a suitable example explain and draw a Box plot and explain usages.	<b>48</b> ]
	b)	Describe the challenges of data visualization. Draw box plot and expl	lain
		Describe the challenges of data visualization. Draw box plot and experits usages.  C3 C3 C3  L3 C3  L3 C3  L3 C3  L3 C3  L4 C4  L5 C4  L5 C5  L5 C5	[9]
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