Total No. of Questions : 4]		200	SEAT No. :	
PA-10062		V.	[Total	No. of Pages : 1
	[6009]	353	•	S
T.E.(Information Technology) (Insem)				
DATA SCIENCE AND BIG DATA ANALYTICS				
(2019 Pattern) (Semester-II) (314452)				
			·	
Time: 1	Hour] ons to the candidates:			Max. Marks: 30
1nstructio 1)	All questions are compulsory.			
2)	Figures to the right indicate full mark	s.		
3)	Assume suitable data if necessary.			
<i>4</i>)	Attempt Q.1 or Q.2, Q3 or Q4.		9	
01)		. 1 •		11 1 0
Q (1) a)	Explain 6V's for defining Big Dat	ta along with	n the factors r	-
1 \	data explosion?		2 11	[8]
b)	List and explain data processing	intrastructi	are challenge	_
	with suitable example.	N (c	$\ddot{\odot}$	[7]
00)	OR	0, 0		0 [0]
Q2) a)	List and explain choices for reeng	_ 1		
b)	Explain shared-everything and shared	ared nothing	garchitecture	
	respect to Big data?	201		[7]
()2) -)	Employed a fallowing Asset	D.		[7]
Q3) a)	Explain the following terms.	2		[7]
	i) Expectation			
L)	ii) Pair wise independence		41. a.a. i.a. a. 00	0/ 01-01-00-01-01
b)	1 /L /V			
	his next purchase will also be coke. If a person's last purchase was Pepsi, there is an 80% chance that his next purchases will also Pepsi.[8]			
				(
	i) Given that a person is cur probability that he will purc	•		/ " ."
			- 01	
	<u> </u>	•		7.2
	that he will purchase Pepsi t OR	ince purena	ises from nov	š .
O(A) a)	Explain Flajolet Martin Distance	a Sampling	2 Find the di	stinct element
27) 07	from the element stream 4,2,5,9		/X'	
	$h(x) = (3x+7) \mod 32$.	,,1,0,3,7.C	onsider the I	[8]
b	Find the variance and standar	rd deviatio	nofor the fo	
	set: 70, 60, 72, 42, 86	a dovidilo		[7]
	500. 70, 00, 72, 72, 00	(~	• *	۲,۱