B.TECH. SEM -VII (COMPUTER) 2014 COURSE (CBCS) : SUMMER - 2018

SUBJECT: BIG DATA ANALYTICS AND ARCHITECTURE

Day Date	:	Wednesday 23/05/2018	S-2018	3-2483		`ime : ⁄Iax Mar	02.30 PM ks: 60	10	05.30 PN
N.B.	1) 2) 3)) Figures to	ions are COM the RIGHT uitable data W	indicate full i	marks.	y.			
Q1.	a)	What is data?	Describe the	categories of	f data and	its sourc	es.		(05)
	b)	Explain the role of RDBMS in Big data ecosystem.						(05)	
	a)	OR What is Big Data? Describe the key characteristics of Big data.						(05)	
	b)	Explain the ro	ole of CMS in	Big data ma	nagement.	Q)		(05)
Q2.	a)	Explain Baye	s rule and Bay	yesian Infere	nce.				(05)
	b)	Consider the following set of Points: $\{(-2,-1),(1,1),(3,2)\}$. Find the least (square regression line for the given data points. OR						ast (05)	
	a)							cs. (05)	
	b)	Suppose everyone who visits a retail website gets one promotional offer or no promotional offer at all, we want to see if making a promotional offer makes a difference. What statistical method you recommend for this analysis. Explain.							ces
Q3.		What kind of tools would be used in the Data analytics lifecycle phases and for which kinds of use scenarios? Explain.					nd (10)		
		Describe in demodel using F	,	OF xample, the v		for build	ling a pred	ictive	(10)
Q4		What is Virtualization		-	•	ince of	various	types	of (10)
		What is Nos Elaborate on t		•	different	from tr	aditional I	RDBM	S? (10)
Q5.	a)	What is Map	reduce? Descr	ribe how Map	reduce w	vorks?			(05)
	b)	What is Hadoop? Explain the pros and cons of Hadoop. ((05)	
	۵)	OR Explain the HDFS Architecture with suitable diagram. (05)							(OE)
	a)	-			_				(05)
	b)	Describe the role of Pig and Hive in Hadoop ecosystem. (0							(05)
Q6.	a)	Describe the I	Privacy landso	ape in Big da	ata enviro	nment.			(05)
	b)	credit risk management.						(05)	
	a)	Define User	Anonymizatio	OR on and Data		ization.	Explain h	ow the	ey (05)
	b)	impact securit What is reco	y and privacy ommendation	in big data e Engine? Ill	nvironme lustrate v	nt? vith an	example		

* * * *