22521

2	3242	2											
3	Ho	ours /	70	Marks	Seat	No.							
	Instru	uctions –	(1)	All Questions	s are Comp	ulsory	<i>'</i> .						
			(2)	Answer each	next main	Ques	tion o	on a	n ne	W	pag	e.	
			(3)	Illustrate you necessary.	r answers v	with n	ieat s	ketc	hes	wł	nere	ever	
			(4)	Figures to the	e right indi	cate f	full n	nark	s.				
			(5)	Assume suita	ble data, if	nece	ssary.						
			(6)	Mobile Phone Communication Examination	e, Pager an on devices Hall.	d any are no	othe ot per	r El rmis	lect sibl	roni le i	ic n		
												Ma	rks
1.		Attempt	t any	<u>FIVE</u> of the	following:								10
	a)	Define t	two ti	ire and three	tire client s	ever	mode	l.					
	b)	State the	e use	of single pur	pose Aggre	gation	ı (any	v tw	vo).				
	c)	State typ	pes o	f parallelism.									
	d)	Enlist a	ny fo	ur application	of data mi	ning.							
	e)	State the	e use	of find () a	nd aggregat	te ().							
	f)	Define of	data r	nart and meta	data.								
	g)	Define f	flower	r expression.									
2.		Attempt	t any	THREE of t	the followin	ıg:							12
	a)	Draw an	nd ex	plain distribute	ed database	syste	em ar	chite	ectu	re.			
	b)	Explain	MUL	TISET data ty	ypes with e	xamp	le.						
	c)	Explain	archi	tecture of data	a warehouse	e.							

d) Explain Big data.

22521

Marks

3.		Attempt any <u>THREE</u> of the following:	12					
	a)	Explain any two complex data types with example.						
	b)	Compare between parallel and distributed database. (any four points)						
	c)	Explain aggregation pipeline.						
	d)	Describe machine learning.						
4.		Attempt any THREE of the following:	12					
	a)	Describe data synchronization in mobile database.						
	b)	Explain oracle cloud technology.						
	c)	Difference between XQuery and XPath. (Any 4 points)						
	d)) Describe the features of BI components.						
5.		Attempt any TWO of the following:	12					
	a)	Explain object and object identity. Write SQL query for the following table :						
		Class : Student						
		Name						
		Age						
		GPA						
		Subject						
		Gender						
		Store						
		Print						

b) Define lock. Explain two phase locking protocol with example.

c) Explain XQuery FLWOR with suitable example.

Update

22521

6. Attempt any <u>TWO</u> of the following: a) Consider following input data for your map reduce program. Welcome to hadoop class. Hadoop is good. Hadoop is bad. Draw map reduce architecture and explain its phases. b) Explain following commands w.r.t. mongoDB shell with example :i) db

- i) db
- ii) use
- iii) show dbs.
- c) Draw and explain architecture of Hadoop.

Marks

12