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3	Ho	ours / 100 Marks Seat No.	
-	Instru	actions – (1) All Questions are Compulsory.	
		(2) Answer each next main Question on a new page.	
		(3) Illustrate your answers with neat sketches wherever necessary.	
		(4) Figures to the right indicate full marks.	
		(5) Assume suitable data, if necessary.	
		Mar	ks
1.		Attempt any <u>FIVE</u> of the following:	20
	a)	Define DBMS? State benefits of DBMS?	
	b)	Explain different causes of failure of DBMS?	
	c)	What are thread to database security.	
	d)	What do you mean by Backup and Recovery in DBMS?	
	e)	What is mobile database? State components of it?	
	f)	State any four data mining techniques. Describe any one.	
	g)	What do you mean by data mining and data warehousing?	
2.		Attempt any FOUR of the following:	16
	a)	Explain recovery concepts in DBMS.	
	b)	Explain any four advantages of DBMS.	
	c)	Create a table space in Oracle using SQL plus? (Assume required data)	
	d)	Explain the features that makes the mobile computing different?	
	e)	Write program code in JSP to access database on the server.	

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		Ma	arks
3.		Attempt any FOUR of the following:	16
	a)	Explain the Role-based authorization in SQL with a suitable example.	
	b)	Explain the shadow paging technique used for the recovery of the DBMS?	
	c)	Explain any four features of multimedia databases?	
	d)	Explain four benefits of three-tier applications?	
	e)	Explain the need of the distributed DBMS?	
4.		Attempt any TWO of the following:	16
	a)	Draw and explain the architecture of DBMS showing detail components.	
	b)	Explain the ARIES recovery algorithm with its details of three passes used in it?	
	c)	Explain the specific characteristics of the Internet databases? Also state the advantages and disadvantages of web databases?	
5.		Attempt any TWO of the following:	16
	a)	What do you mean by access control in DBMS security? Explain two approaches for the access control.	
	b)	What is two-tier architecture? Explain with neat diagram. What are three-tier applications and its key considerations.	
	c)	(i) Explain the technical need of the digital library.	
		(ii) Explain diferred - update technique for recovery.	
6.		Attempt any FOUR of the following:	16
	a)	Explain the Granting of Privileges by use of the 'GRANT' statement?	
	b)	Explain the SGA and PGA used in DBMS?	
	c)	What is meant by Database Administrator? State the responsibilities of DBA?	
	d)	Explain four components of digital library?	
	e)	Describe any four applications of Multimedia databases?	