Code No: 5158L

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M. Tech II Semester Examinations, February - 2017

ADVANCED DATABASES

(Computer Science Engineering)

1.		(Computer 5	8	Ma	ax. Marks: 60	
Time:	3 Hours					
Note:	This question pape Part A is compuls Part B consists of Each question carr	sory which carr	ies 20 marks. Ans	i question in	3111 2412-1	
**************************************	SE		ART - A		4 Marks = 20	
1.a) b) (c) (d) e)	Define ACID prot	rable properties perties: []; en Extendible v	of data models. of decomposition? ersus linear hashin	g.	[4] [4] [4] [4] [4]	
		P	PART - B	5	× 8 Marks = 40	
2.	Consider the following Sailors (sid, sname Boats (bid, bname	ie, rating, age)	. 9 8			
	Reserves (sid, bid Write the states Relational Calcul a) Find the name b) Find the name	I, day) ments in Rela us and SQL for s of sailors who s of sailors who	tional Algebra, I the following ques have reserved a Re have reserved at le have reserved a Re	ed boat. east one boat. ed and a Greer	boat.	
3.	d) Find the name e) Find the name	s of sailors who	have reserved a Rehave reserved all box oR abase systems? Disare database langu	ooats.	base systems are	
4.	Give a loss-less	A , $B \rightarrow D$, $E \rightarrow A$ decomposition A	1 112	25.0	•	
5.	Discuss the need and inclusion de	l for schema ref pendencies.	inement. Explain th	ne fourth and f	ifth normal form [8]	
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24.83	**************************************	Contrast ARIES w	[8]					
	7.	OR Explain lock based concurrency control process and concurrency control without locking. [8]						
	9.	Explain file organi What are index da indexing.		OR	able examples the	[8] hash based [8]	(m. 190	
	10.	Explain the distrib	[8]					
		Describe the three	main architectur	OR es for distributed	DBMS.	[8]		
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