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AG	AC	a AG	AG	AG	AG	AG
AG	Code No: 1 JAW Time: 3 Ho	AHARLAL NEHRU B.Tech II Yo DATA	U TECHNOL G ar II Semester E BASE MAÑAGE (Common to C	xaminations, M	lay - 2017	R15 ABAD A. Marks: 75
AG	Part Part	question paper contains A is compulsory to B consists of 5 Union carries 10 marks	which carries 25 nits. Answer any	marks. Answord one full question, c as sub-questi	tion from each	unit. Each
AG	b) Exploration of the column o	is DBMS? What are ain about DDL and D ain views in SQL languin domain relational le loss less join decon is the difference betwis locking Protocol? In are two schedules con	ML languages. guage. calculus. nposition with exa	umple. NF?	A C t serializable sch	(25 Marks) [2] [3] [2] [3] [2] [3] [2] edule? [3]
AG		are tree-structure inderis the main difference		and B+ tree inde	xes?	
AG	b) Explai) Vie	are the main componin the following: w of Data ii) D op ER-Diagram for s. Associated with cted. is relation? Different rity and degree of a r	ata Abstraction OR a hospital with each patient a l	iii) Instances an a set of pati og of the varie	d Schemas. ents and a set ous tests and e d relation instance	[5+5] of medical xaninations
AG	b) Explain SON 5.a) Let R=	=(ABC) and S=(DEF sion in the Tuple rela	ators in SQL with iii) EX OR l) let r(R) and s(S) tional calculus that	examples: XCEPT i both relations at is equivalent to	v) EXISTS on schema R and	
AG.	b) What	are integrity constraint interest and are these e	nts? Define the te	rms primary key		foreign key [5+5]



What is normalization? What are the conditions are required for a relation to be in 2NF. 6.a)3NF and BCNF explain with examples. Compute the closer of the following set of functional dependencies for a relation scheme. b), $R(A,B,C,D,E) \setminus F = \{A \rightarrow BC, CD \rightarrow E, B \rightarrow D, E \rightarrow A\}$ List out the candidate keys of R. What are the conditions are required for a relation to be in 4NF and 3NF explain with 7.a)Compute the closer of the following set of functional dependencies for a relation scheme. b) R(A,B,C,D,E,F,G,H), $F=\{AB \rightarrow C,BD \rightarrow EF,AD \rightarrow G,A \rightarrow H\}$ List the candidate keys of R. What is transaction? Explain the ACID Properties of transactions. 8.a) Explain the Check point log based recovery scheme for recovering the database. [5+5] b) Describe the steps in crash recovery in ARIES. 9.a) [5+5]Explain the *Time Stamp - Based Concurrency* Control protocol. b) Explain Deletion and insertion operations in ISAM with examples. 10.a) How does Extendable hashing use a directory of buckets? How does it handles insert and [5+5]delete operations. OR Explain how insert and delete operations are handled in a static hash index. [5+5] Explain deletion and insertion operation in B+ trees. ---ooOoo---

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