Directorate of Distance Education INTEGRAL UNIVERSITY – LUCKNOW

Semester Examination – June 2017 DATABASE MANAGEMENT SYSTEM (Paper Code: MBA 544)

Taper Code, MBN 544)			
Course : MBA Time Duration: 3 Hours Semester : 3 rd /4 th Total Marks: 80 SECTION – A			
*	Attempt All Ten (10) Questions. Each question is of Two (2) Marks.		
Q-1	Select from instructor where following should be used to find the mean A. Mean(salary) C. Sum(salary)		
Q-2	Aggregate functions are functions that ta value. A. Collection of values C. Aggregate value	ke a as input and return a single B. Single value D. None of these	
Q-3	An on an attribute of a relation is system to find those tuples in the relation specified value for that attribute efficiently of the relation. A. Index C. Assertion	on that tuples in the relation that have a	
Q-4	A system is in a state if there ex transaction in the set is waiting for anothe A. Deadlock C. Idle		
Q-5	What are the ways of dealing with deadlook A. Deadlock prevention C. Deadlock detection	B. Deadlock recovery D. All of these	
Q-6	The unit of storage that can store one are are A. Buckets C. Both A and B	more records in a hash file organization B. Disk pages D. None of these	

Q-7	The storage structure which do not survive system crashes are		
	A. Non-volatile storage	B. Volatile storage	
	C. Stable storage	D. Dynamic storage	
Q-8	A file system is software that enables multiple computers to share file storage while maintaining consistent space allocation and file content. A. Storage B. Cluster		
	C. Tertiary	D. Secondary	
Q-9	A in a table represents a relationship among a set of values.		
	A. Column	B. Key	
	B. Entry	D. Row	
Q-10	The term is used to refer to a row.		
	A. Attribute	B. Field	
	C. Tuple	D. Instance	
SECTION – B (SHORT ANSWERS)			
*	❖ Attempt any Five (05) Questions.		
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Q-1	Describe and define the key properties of a database system. Give an organizational example of the benefits of each property.		
Q-2	Enumerate the basic constructs of ER Model.		
Q-3	Explain any three relational operators with example.		
Q-4	With SQL, how can you insert "GJU" as the "FName" in the "University" table?		
Q-5	What are the various guidelines that need to be taken care of while designing a relational schema?		
Q-6	What does the term un-normalized relation refer to? How did the normal forms develop historically?		
Q-7	Explain how you could estimate costs while performing query processing?		
	SECTION - C (LONG	ANSWERS)	
*	Attempt any Three (03) Questions.		
*	Each question is of Ten (10) Marks.		
Q-1	Discuss the following rules governing the manipulation of relational algebraic expressions?		
Q-2	Explain Transaction with live examples? What are the ACID Properties of Transaction?		
Q-3	Discuss how recovery from catastrophic failures is handled.		
Q-4	Discuss the immediate update recovery technique in both single-user and multiuser		

environments. What are the advantages and disadvantages of immediate update? Discuss the different techniques for executing an equijoin of two files located at

different sites. What main factors affect the cost of data transfer?

Q-5