Mid Term Examination - March, 2017

Subject Subject Course	t Title		ïs:	12/04/2017 1.30 Hours 30
Q-1 ·		Multi Purpose Choice Questions (Attempt any 06 out of 10)		(06)
1		The DBMS acts as an interface between what two components of an enterprise-class	SS	(1)
		database system?		
	A	Database application and the database		
	B	Data and the database		
	C	The user and the database application		
	D	Database application and SQL		
2		The scheme for hierarchical database is		(1)
	A	A tree		
	B	A graph		
c	C	A B-tree		
	D	None of the above		
3		The data model which describes how the data is actually stored		(1)
	A	External model		
	B	Logical/conceptual model		
	C	Internal/Physical model		
	D	None of these		
4		DBA stands for		(1)
	A	Data Bank Access		
	B	Database Access		
	C	Data Bank Administrator		
	D	Database Administrator		

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Sub		Code Title		12/04/2017 1.30 Hours 30
	5		Which of the following are properties of entities?	(1)
		A	Groups	
		B	Table	
		C	Attributes	
		D	Switchboards	
	6		Which one of the following data model design is both software and hardware	(1)
			independent?	
		A	Logical	
		В	Physical	
		C	Conceptual	
		D	None of the above	
	7		Data are	
	,	\mathbf{A}	Raw facts and figures	
		В	Information	
		C	Electronic representation of facts	
		D	None of the above	
	8		Which of the following attribute do not exist in the physical database, but their values	(1)
			are derived from other attributes present in the database.	
		A	Simple attribute	
		В	Derived attribute	
		C	Single-valued attribute	
		D	Composite attribute	

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9		The set of all possible values of data items is called	(1)
	A	Domain	
	В	Attribute	
	C	Tuples	
	D	Entities	
10		Which one is the lowest level data model?	(1)
	A	Physical data model	
	В	Logical data model	
	C D	Conceptual Data model External Data Model	
Q-2		Answer the following questions in short with examples (Attempt any 08 from 10	0) (08)
1		Define Information with example	(1)
2		Define Instance with example	(1)
3		Define DBMS with example	(1)
4		Define Relationship with example	(1)
5		Define Data Model with example	(1)
6		Define Total Participation with example	(1)
7		Define Weak Entity with example	(1)
8		Define Data Abstraction with example	(1)
9		Define Data Independence with example	(1)
10		Define Entity with example	(1)

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Q-3	Answer the following questions in brief (Attempt any 4 from 6)	(08)
4	Equipie versions Degrees of a Relationship Set	(2)
1	Explain various Degrees of a Relationship Set	
2	Explain Physical Model	(2)
3	Explain two types of Data Independence	(2)
4 4	Write the duties of Database Administrator (DBA)	(2)
. 5	Explain Logical/Internal Model	(2)
6	Explain Specialization	(2)
Q-4	Answer the following questions in detail (Attempt any 2 from 4)	(08)
1	Explain ANSI/SPARC Database Architecture	(4)
2	Explain Hierarchical DB Model with example in detail	(4)
3	Explain different types of Attributes	(4)
4	Construct an ER diagram for university database which consists of following entities	(4)
	Student includes Student_ID, student_name, student_address, student_phno,	
	student_dateofbirth	
	Instructor includes inst_Id, inst_name, course_id	
	Primary keys are – student_id, inst_id	
	Composite Attribute - Student_address (Streetno,apartment_no, city, pincode)	
	Age is derived attribute from student_dateofbirth	