University of Mumbai Examination 2020

Examinations Commencing from 23rd December 2020 to 6th January 2021 and from 7th January 2021 to 20th January 2021

Program: **Information Technology** Curriculum Scheme: Rev 2016 Examination: SE Semester III

Course Code: ITC303 and Course Name:DBMS

Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks		
	compuisory and carry equal marks		
1.	Consider the relations r1(P, Q, R) and r2(R, S, T) with primary keys P and R respectively. The relation r1 contains 2000 tuples and r2 contains 2500 tuples. The		
	maximum size of the join r1⋈r2r1⋈r2 is		
Option A:	2000		
Option B:	2500		
Option C:	2400		
Option D:	4500		
2.	Given the basic ER and relational models, which of the following is INCORRECT?		
Option A:	An attribute of an entity can have more than one value		
Option B:	An attribute of an entity can be composite		
Option C:	In a row of a relational table, an attribute can have more than one value		
Option D:	In a row of a relational table, an attribute can have exactly one value or a NULL value		
Ontion A:	A relational database contains two tables student and department in which the student table has columns roll_no, name and dept_id, and department table has columns dept_id and dept_name. The following insert statements were executed successfully to populate the empty tables: Insert into department values (1, 'Mathematics') Insert into department values (2, 'Physics') Insert into student values (1, 'Navin', 1) Insert into student values (2, 'Mukesh', 2) Insert into student values (3, 'Gita', 1) How many rows and columns will be retrieved by the SQL statement? Select * from student, department; 0 row and 4 columns		
Option A:			
Option B:	3 row and 4 columns		
Option C:	3 row and 5 columns		
Option D:	6 row and 5 columns		
4.	DBMS is a collection of that enables users to create and maintain a database.		
Option A:	Keys		
Option B:	Translator		
Option C:	Program		

Option D:	Language
5.	The assignment operator is denoted by
Option A:	->
Option B:	<-
Option C:	_
Option D:	
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6.	A domain is atomic if elements of the domain are considered to be units.
Option A:	Different
Option B:	Indivisible
Option C:	Constant
Option D:	Divisible
7.	The operation, denoted by " – ", allows us to find tuples that are in one relation but are not in another.
Option A:	Union
Option B:	Set difference
Option C:	Difference
Option D:	except
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8.	If the employee is the entity type then Michael, smith is the entity?
Option A:	Characteristics
Option B:	Field
Option C:	Identifier
Option D:	Instance
9.	An entity type whose existence depends on another entity type is called entity?
Option A:	Strong
Option B:	Weak
Option C:	Dependent
Option D:	variant
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10.	DBMS helps to achieve
Option A:	Data independence
Option B:	Centralized control of data
Option C:	Neither A nor B
Option D:	Both A and B
11.	Which SQL statement is used to extract data from a database?
Option A:	Get Statement
Option B:	Extract
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Option C:	Open Solvet
Option D:	Select
12.	With SQL, how do you select all the records from a table named "Employees" where the value of the column "First_Name" is "John"?
Option A:	Select [all] from Employees where First_name<>John

Option B:	Select [all] from Employees where First_name like John
Option C:	Select * from Employees where First_name<>John
Option D:	Select * from Employees where First_Name='John'
option B.	Select Holl Employees where Thist_I tailine - voim
13.	Which SQL keyword is used to sort the result-set?
Option A:	Order by
Option B:	Sort by
Option C:	Arrange
Option D:	Order
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14.	How can you change "Hansen" into "Nilsen" in the "L_Name" column in the Employees Person table?
Option A:	Update Employees set L_Name='Hansen' where L_Name='Nilsen'
Option B:	Update Employees set L_Name='Nilsen' where L_Name='Hansen'
Option C:	Modify Employees set L_Name='Hansen' where L_Name='Nilsen'
Option D:	Modify Employees set L_Name='Nilsen where L_Name='Hansen'
15.	Which operator is used to select values within a range?
Option A:	Between
Option B:	Range
Option C:	Not In
Option D:	In
16.	The granting and revoking of roles by the user may cause some confusion when that
	user role is revoked. To overcome the above situation
Option A:	The privilege must be granted only by roles
Option B:	The privilege is granted by roles and users
Option C:	The user role cannot be removed once given
Option D:	By restricting the user access to the roles
17	Which statement is seed to me have a stand for sting?
17.	Which statement is used to produce a stored function?
Option A:	CREATE FUNCTION
Option B:	Procedure procedure
Option C:	Produce function
Option D:	Create Procedure
18.	If the detabase modifications occur while the transaction is still active the transaction
10.	If the database modifications occur while the transaction is still active, the transaction is said to use the modification technique.
Option A:	Deferred
Option B:	Immediate
Option C:	More than one of the mentioned
Option C:	modify
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19.	If a system has entered and undesirable state due to which it is unable to continue with
	normal execution, it is called as
Option A:	Logical error
Option B:	System error
Option C:	System Crash
Option D:	Stack overflow
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20.	In which normal foam conversion of composite attribute to individual attribute
	happens?
Option A:	2NF
Option B:	3NF
Option C:	1NF
Option D:	BCNF

Q2	Attempt any 4 out of 6 Questions	5 marks each
A	Define Generalization and Specialization	
В	Difference between DBMS and File Processing system	
C	Define characteristics of DBA in detail	
D	List and explain all aggregate function in SQL	
Е	Explain Total participation and Partial participation	·
F	Explain Transaction state diagram.	

Q3.	Attempt any 2 out of 3 Questions	10 marks each
A	Draw an ER diagram on Hospital Management.	
В	Define Normalization and explain 1NF,2NF with example.	
C	Explain the view in SQL with syntax and example.	