

## **BRAINWARE UNIVERSITY**

## Term End Examination 2020 - 21

## **Programme – Master of Computer Applications**

Course Name - DBMS Course Code - MCA303

Semester / Year - Semester III

Time allotted: 75 Minutes

Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

	(Multiple Choice Type Question)	1 x 60=60
1. (Answer any Six	ty)	
(i) The term is us	sed to refer to a row.	
a) Attribute	b) Tuple	
c) Field	d) Instance	
(ii) The term attribute refe	ers to a of a table.	
a) Record	b) Column	
c) Tuple	d) Key	
	which is the logical design of the database, as a snapshot of the data in the database at a gi	
a) Instance, Schema	b) Relation, Schema	
c) Relation, Domain	d) Schema, Instance	
(iv) Course(course_id,sec_are and course	_id,semester) Here the course_id,sec_id and s	emester
a) Relations, Attribute	b) Attributes, Relation	
c) Tuple, Relation	d) Tuple, Attributes	
	e, building, budget) and Employee (employee Here the dept name attribute appears in both	_

relations. Here using common attributes in re relating relations.	lation schema is one way of	
a) Attributes of common	b) Tuple of common	
c) Tuple of distinct	d) Attributes of distinct	
(vi) The tuples of the relations can be of	order.	
a) Any	b) Same	
c) Sorted	d) Constant	
(vii) A in a table represents a relati	ionship among a set of values.	
a) Column	b) Key	
c) Row	d) Entry	
(viii) Which one of the following provides the ability to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database?		
a) DML	b) DDL	
c) Query	d) Relational schema	
(ix) The basic data type char(n) is a len varchar(n) is length character.	ngth character string and	
a) Fixed, equal	b) Equal, Variable	
c) Fixed, variable	d) Variable, equal	
(x) An attribute A of datatype varchar(20) has the value "Avi". The attribute B of datatype char(20) has value "Reed". Here attribute A has spaces and attribute B has spaces.		
a) 3,20	b) 20,4	
c) 20,20	d) 3,4	
(xi) To remove a relation from an SQL databa	ase, we use the command.	
a) Drop table	b) delete	

c) remove	d) purge
(xii) Delete from r; Performs which operation?	
a) Clear relation entries	b) Delete the relation
c) Delete fields	d) Delete rows
(xiii) Which one of the following is used to defideleting relations and relating schemas?	fine the structure of the relation,
a) DDL	b) DML
c) Relational algebra	d) Query
(xiv) What type of statement is 'select'?	
a) DDL	b) DML
c) View	d) Integrity constraint
(xv) This Query can be replaced by which one name, course_id FROM instructor, teaches WF teaches_ID;	
a) Select name,course_id from teaches,instructor where instructor_id=course_id;	b) Select name, course_id from instructor natural join teaches
c) Select name, course_id from instructor;	d) Select course_id from instructor join teaches;
(xvi) The Rectangles divided into two parts rep	presents
a) Entity set	b) Relationship set
c) Attributes of a relationship set	d) Primary key
(xvii) We indicate roles in E-R diagrams by lab	peling the lines that connect
a) Diamond, diamond	b) Rectangle, diamond
c) Rectangle, rectangle	d) Diamond, rectangle

(xviii) For a weak entity set to be meaningful, i	t must be associated with	
another entity set, called the		
a) Identifying set	b) Owner set	
c) Neighbour set	d) Strong entity set	
(xix) Weak entity set is represented as		
a) Underline	b) Double line	
c) Double diamond	d) Double rectangle	
(xx) If you were collecting and storing information collection, an album would be considered a(n)	_	
a) Relation	b) Entity	
c) Instance	d) Attribute	
(xxi) What term is used to refer to a specific recinstance; information stored about a specific all	•	
a) Relation	b) Instance	
c) Table	d) Column	
(xxii) How many join types in join condition:		
a) 2	b) 3	
c) 4	d) 5	
(xxiii) Which join refers to join records from the right table that have no matching key in the left table are include in the result set:		
a) Left outer join	b) Right outer join	
c) Full outer join	d) Half outer join	
(xxiv) In SQL the statement select * from R, S	is equivalent to	
a) Select * from R natural join S	b) Select * from R cross join S	
c) Select * from R union join S	d) Select * from R inner join S	

(xxv) SELECT name FROM instructor WHER >= 90000; This query can be replaced by which	•
a) SELECT name FROM instructor WHERE salary BETWEEN 90000 AND 100000;	b) SELECT name FROM employee WHERE salary <= 90000 AND salary>=100000;
c) SELECT name FROM employee WHERE salary BETWEEN 90000 AND 100000;	d) SELECT name FROM instructor WHERE salary BETWEEN 100000 AND 90000;
(xxvi) SELECT instructor.* FROM instructor, teaches.ID; This query does which of the follow	
a) All attributes of instructor and teaches are selected	b) All attributes of instructor are selected on the given condition
c) All attributes of teaches are selected on given condition	d) Only some attributes from instructed and teaches are selected
(xxvii) In SQL the spaces at the end of the strir function.	ng are removed by
a) Upper	b) String
c) Trim	d) Lower
(xxviii) operator is used for appending t	wo strings.
a) &	b) %
c)	d) _
(xxix) CREATE TABLE Employee(Emp_id N VARCHAR(20), dept_name VARCHAR(20), UNIQUE(Emp_id,Name)); INSERT INTO EmcSE, 10000) INSERT INTO Employee VALUINSERT INTO Employee VALUES(1002,Ritaresult of the query?	Salary NUMERIC  uployee VALUES(1002, Ross, UES(1006,Ted,Finance, );
a) All statements executed	b) Error in create statement
c) Error in insert into Employee	d) Error in insert into Employee

(xxxv) Which forms has a relation that possesses data about an individual

entity?		
a) 2NF	b) 3NF	
c) 4NF	d) 5NF	
(xxxvi) The normal form which satisfies multivis in BCNF is	alued dependencies and which	
a) 4 NF	b) 3 NF	
c) 2 NF	d) All of the mentioned	
(xxxvii) If a multivalued dependency holds and corresponding functional dependency, it usually following sources.		
a) A many-to-many relationship set	b) A multivalued attribute of an entity set	
c) A one-to-many relationship set	d) Both A many-to-many relationship set and A multivalued attribute of an entity set	
(xxxviii) The operator is used to comparvalues that have been specified.	are a value to a list of literals	
a) BETWEEN	b) ANY	
c) IN	d) ALL	
(xxxix) Relational calculus is a		
a) Procedural language.	b) Non- Procedural language	
c) Data definition language.	d) High level language	
(xl) Which one of the following is not true for a	view:	
a) View is derived from other tables.	b) View is a virtual table.	
c) A view definition is permanently stored as part of the database	d) View never contains derived columns.	
(xli) A primary key if combined with a foreign key creates		
a) Parent-Child relationship between the	b) Many to many relationship between the	

tables that connect them	tables that connect them.
c) Network model between the tables that connect them.	d) None of these
(xlii) In E-R Diagram relationship type is repre	sented by
a) Ellipse	b) Dashed ellipse
c) Rectangle	d) Diamond
(xliii) Hierarchical model is also called	
a) Tree Structure	b) Plex Structure
c) Normalize Structure	d) Table Structure
(xliv) To delete a particular column in a relation	n the command used is:
a) UPDATE	b) DROP
c) ALTER	d) DELETE
(xlv) A data manipulation command the combinemore tables is called	nes the records from one or
a) SELECT	b) PROJECT
c) JOIN	d) PRODUCT
(xlvi) Which of the following is another name f	for weak entity?
a) Child	b) Owner
c) Dominant	d) All of each
(xlvii) Which of the following database object of	does not physically exist?
a) base table	b) index
c) view	d) none of these
(xlviii) Which of the following is record based	logical model?
a) Network Model	b) Object oriented model

(xlix) A data dictionary is a special file that con	itains:
a) The name of all fields in all files.	b) The width of all fields in all files.
c) The data type of all fields in all files.	
(l) Using Relational Algebra the query that fine balance of over	ds customers, who have a
<ul><li>a) PCustomer_name(s balance</li><li>&gt;1000(Deposit))</li></ul>	b) s Customer_name(Pbalance >1000(Deposit))
c) PCustomer_name(s balance >1000(Borrow))	d) s Customer_name(Pbalance >1000(Borrow))
(li) Which of the following is a comparison op	erator in SQL?
a) =	b) LIKE
c) BETWEEN	d) All of the mentioned
(lii) SET concept is used in:	
a) Network Model	b) Hierarchical Model
c) Relational Model	d) None of these
(liii) The statement in SQL which allows to cha	ange the definition of a table is
a) Alter.	b) Update.
c) Create.	d) select.
(liv) Data independence means	
<ul> <li>a) data is defined separately and not included in programs</li> </ul>	b) programs are not dependent on the physical attributes of data.
c) programs are not dependent on the logical attributes of data.	d) Both programs are not dependent on the physical attributes of data. & programs are not dependent on the logical attributes of data.

d) none of these

c) E-R Model

<ul><li>(lv) The method in which records are physically according to a key field in each record is</li></ul>	stored in a specified order
a) hash	b) direct.
c) sequential.	d) all of these
(lvi) The way a particular application views the application uses is a	data from the database that the
a) module.	b) relational model.
c) schema.	d) sub schema
(lvii) The language which has recently become interfacing application programs with relational	
a) Oracle	b) SQL
c) DBase	d) 4GL
(lviii) What is a relationship called when it is m	aintained between two entities?
a) Unary	b) Binary
c) Ternary	d) Quaternary
(lix) Which of the following is correct:	
a) a SQL query automatically eliminates duplicates.	b) SQL permits attribute names to be repeated in the same relation.
c) a SQL query will not work if there are no indexes on the relations	d) None of these
(lx) The method in which records are physically according to a key field in each record is	stored in a specified order
a) hash.	b) direct.
c) sequential.	d) All of these