

BRAINWARE UNIVERSITY

Term End Examination 2020 - 21

Programme – Master of Business Administration Course Name – Database Management Course Code - SM301

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

Grouj	J-A	
(Multiple Choi	ce Type Question)	1 x 60=60
1. (Answer any Sixty)		
(i) DBMS provides a convenient and efficient	environment	
a) 1	b) Not always true	
(ii) Which of the following isn't a level of abs	traction?	
a) Physical	b) Logical	
c) User	d) view	
(iii) Thelevel helps application progra	ms hide the details of data	types
a) Physical	b) Logical	
c) User	d) view	
(iv) The actual content in the database at a par	ticular point	
a) Schema	b) Attribute	
c) Parameter	d) Instance	
(v) SQL is		
a) Relational	b) Network	
c) IMS	d) Hierarchical	
(vi) Choose the correct statement regarding su DBMS	per keys from the followin	gs in
a) A superkey is an attribute or a group of	b) A super key is a tuple	or a set of multiple

multiple attributes that can uniquely tuples that can uniquely identify an attribute identify a tuple d) A superkey is an attribute or a set of c) Every superkey is a candidate key attributes that distinguish the relation from other relations (vii) What is an Instance of a Database a) The logical design of the database b) The entire set of attributes of the Database put together in a single relation system c) The state of the database system at any d) The initial values inserted into the given point of time Database immediately after its creation (viii) What is a foreign key a) A foreign key is a primary key of a b) A foreign key is a superkey of a relation relation which is an attribute in another which is an attribute in more than one other relations relation c) A foreign key is an attribute of a relation d) A foreign key is the primary key of a relation that does not occur anywhere else that is a primary key of another relation in the schema (ix) What does the "x" operator do in relational algebra? a) Output specified attributes from all rows b) Output pairs of rows from the two input of the input relation. Remove duplicate relations that have the same value on all tuples from the output attributes that have the same name c) Output all pairs of rows from the two d) Returns the rows of the input relation input relations (regardless of whether or not that satisfy the predicate they have the same values on common attributes) (x) In a relational schema, each tuple is divided into fields called a) Row b) Domains c) Value d) Tuple

b) Data File Diagram

(xi) DFD stands for

a) Data Flow Document

c) Data Flow Diagram	d) None of them	
(xii) Which of the following is not an appropr	iate criterion for file organization?	
a) Larger access time	b) ease of update	
c) simple maintenance	d) economy of storage	
(xiii) Which of the following isn't a part of the	e file directory?	
a) Attributes	b) Protocol	
c) Location	d) Ownership	
(xiv) Using which language can a user reques	t information from a database?	
a) Query	b) Relational	
c) Structural	d) Compiler	
(xv) Student(ID, name, dept name, tot_cred) I the primary key?	n this query which attributes form	
a) ID	b) Name	
c) Dept	d) Tot_cred	
(xvi) Theoperation performs a set untables	nion of two "similarly structured"	
a) Union	b) Join	
c) Product	d) Intersect	
(xvii) Which one of the following provides the database and to insert tuples into, delete to the database?		
a) DML(Data Manipulation Langauge)	b) DDL(Data Definition Langauge)	
c) Query	d) Relational Schema	
(xviii) An attribute A of datatype varchar(20) B of data type char(20) has value "Reed". Her attribute B has spaces a) 3, 20		
a, 5, 20	0) 20, T	

d) All of these

d) 3, 4

c) 20, 20

c) FLOAT

(xxvi) Which of the following operations need union compatible	the participating relations to be
a) UNION	b) INTERSECTION
c) DIFFERENCE	d) All of these
(xxvii) Which of the following is an advantage	of view?
a) Data security	b) Derived columns
c) Hiding of complex queries	d) All of these
(xxviii) A set of possible data values is called	
a) attribute.	b) degree.
c) tuple.	d) domain
(xxix) Which of the following is another name	for weak entity?
a) Child	b) Owner
c) Dominant	d) All of these
(xxx) NULL is	
a) the same as 0 for integer	b) the same as blank for character
c) the same as 0 for integer and blank for character	d) Not a value
(xxxi) A file manipulation command that extraction is called	cts some of the records from a
a) SELECT	b) PROJECT
c) JOIN	d) PRODUCT
(xxxii) A primary key is combined with a foreign	gn 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

(xxxiii) In E-R Diagram derived attribute are represented by

a) Ellipse	b) Dashed ellipse	
c) Rectangle	d) Triangle	
(xxxiv) An instance of relational schema R (A, including NULL values. Which one of the follows:		
a) A is a candidate key	b) A is not a candidate key	
c) A is a primary Key	d) Both A is a candidate key and A is a primary Key	
(xxxv) In E-R Diagram relationship type is repr	resented by	
a) Ellipse	b) Dashed Ellipse	
c) Rectangle	d) Diamond	
(xxxvi) A logical schema		
a) is the entire database	b) is a standard way of organizing information into a accessible part	
c) describe how data is actually stored on disk	d) none of these	
(xxxvii) A B-tree of order m has maximum of _	children	
a) m	b) m+1	
c) m-1	d) m/2	
(xxxviii) In E-R diagram generalization is repre	esented by	
a) Ellipse	b) Dashed Ellipse	
c) Rectangle	d) Diamond	
(xxxix) An actual attribute is a in a	a relation.	
a) Row	b) Bar	
c) Value	d) None of these	
(xl) What is the main limitation of Hierarchical	Databases?	
a) Limited capacity (unable to hold much data)		

c) Overhead associated with maintaining indexes	d) The performance of the database is poor	
(xli) The separation of the data definition from t	he program is known as:	
a) Data dictionary	b) Data independence	
c) Data integrity	d) Referential integrity	
(xlii) In the client / server model, the database:		
a) Is downloaded to the client upon request	b) Is shared by both the client and server	
c) Resides on the client side	d) Resides on the server side	
(xliii) The traditional storage of data that is orga separate folders in filing cabinets is an example system?		
a) Hierarchical	b) Network	
c) Object oriented	d) Relational	
(xliv) The purpose of an N-Ary association is:		
a) To capture a parent-child relationship	b) To deal with one to many relationships	
c) To deal with relationships that involve more than two tables	d) To represent an inheritance relationship	
(xlv) Which of the following is a property of tra	nsactions?	
a) Atomicity	b) Durability	
c) Isolation	d) All of the mentioned	
(xlvi) Which of the following is not a property of	of a transaction?	
a) Atomicity	b) Simplicity	
c) Isolation	d) Durability	
(xlvii) Which of the following is not a transaction	on state?	
a) Active	b) Partially committed	
c) Failed	d) Compensated	

(xlviii) The scheme that controls the interaction is called as	between executing transactions
a) Concurrency control scheme	b) Multiprogramming scheme
c) Serialization scheme	d) Schedule scheme
(xlix) Which of the following concurrency cont serialzability and freedom from deadlock? I. 2-pordering	-
a) I only	b) II only
c) Both of I only and II only	d) None
(l) The deadlock in a set of transaction can be d	etermined by
a) Read-only graph	b) Wait graph
c) Wait-for graph	d) All of the mentioned
(li) Selecting the victim to be roll backed to the the minimum cost. The factors determining cost a) How long the transaction has computed, and how much longer the transaction will compute before it completes its designated	•
task. c) How many more data items the transaction needs for it to complete and how many transactions will be involved in the rollback.	d) All of these
(lii) Which of these is data type long literal?	
a) 0x99fffL	b) ABCDEFG
c) 0x99fffa	d) 99671246
(liii) A transaction for which all committed char	nges are permanent is called:
a) Atomic	b) Consistent
c) Isolated	d) durable

(liv) Which of the following occurs wh previously read and finds modification	
transaction?	
a) No repeatable read	b) Phantom read
c) Dirty read	d) Consistent read
(lv) ensures that once transaction or lost, even in the event of a system fa	changes are done, they cannot be undone ilure.
a) Atomicity	b) Consistency
c) Durability	d) Isolation
(lvi) The Oracle RDBMS uses thestart and its properties	statement to declare a new transaction
a) BEGIN	b) SET TRANSACTION
c) BEGIN TRANSACTION	d) COMMIT
(lvii) When the recovery procedure use updated by transaction operations during before the transaction reaches its comm	ng the transaction's execution, even
a) write-through	b) deferred write
c) immediate write	d) unbuffered
(lviii) A(n) lock exists when concaccess on the basis of a common lock.	urrent transactions are granted Read
a) Binary	b) field-level
c) Shared	d) exclusive
(lix) means that the data used dur be used by a second transaction until th	ing the execution of a transaction cannot be first one is completed.
a) Atomicity	b) Consistency
c) Durability	d) Isolation
(lx) When the recovery procedure uses updated by transaction operations durin	

before the transaction reaches its commit point.

a) write-through

b) deferred write

c) immediate write

d) unbuffered