

BRAINWARE UNIVERSITY

Term End Examination 2020 - 21

Programme – Bachelor of Science (Honours) in Computer Science

Course Name – Database Management System

Course Code - BCSC301

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

(Mul	tiple Choice Type Question)	1 x 60=60
1. (Answer any Sixty)		
(i) A relational database consists of	a collection of	
a) Tables	b) Fields	
c) Records	d) Keys	
(ii) A in a table represent	ts all the attributes with or without a	a value.
a) Column	b) Key	
c) Row	d) Entry	
(iii) The term attribute refers to a	of a table.	
a) Record	b) Column	
c) Tuple	d) Key	
(iv) A collection of related data.		
a) Information	b) Valuable information	on
c) Database	d) Metadata	
(v) DBMS manages the interaction	between and database.	
a) Users	b) Clients	
c) End Users	d) Stakeholders	

(vi) DBMS is a collection of	which enable users to create and	
maintain a database.		
a) program	b) translator	
c) language activity	d) key	
(vii) What is the full form of DBA?		
a) Database Access	b) Database Administrator	
c) Database Authority	d) None of the these	
(viii) Which term is used to refer a ro	w in a table?	
a) attribute	b) tuple	
c) field	d) instance	
(ix) Which database level is closest to	the users?	
a) External	b) Internal	
c) Physical	d) Conceptual	
(x) Which of the following is not a Sc	chema?	
a) Database Schema	b) Physical Schema	
c) Critical Schema	d) Logical Schema	
(xi) Which of the following is a Data	Model?	
a) a. Entity-Relationship model	b) Relational data model	
c) Object-Based data model	d) All of these	
(xii) The restrictions placed on the da	ta.	
a) Relation	b) Attribute	
c) Parameter	d) Constraint	
(xiii) A characteristic of an entity.		
a) Relation	b) Attribute	

c) Parameter	d) Constraint		
(xiv) In an ER model, which one is used to store its data?			
a) entity	b) attribute		
c) relationship	d) notation		
(xv) Attributes correspond to			
a) Rows of a table	b) Columns of a table		
c) Degree of a table	d) None of these		
(xvi) A set of tuples at any given instant of time	e is called		
a) Table	b) Row		
c) View	d) None of these		
(xvii) In an E-R diagram attributes are represented by			
a) rectangle	b) square		
c) ellipse	d) triangle		
(xviii) In the relational modes, cardinality is ter	med as:		
a) Number of tuples	b) Number of attributes		
c) Number of tables.	d) Number of constraints		
(xix) Cartesian product in relational algebra is			
a) Unary operator.	b) Binary operator.		
c) Ternary operator	d) not defined		
(xx) Which of the following are the properties of entities?			
a) Groups	b) Table		
c) Attributes	d) Switchboards		

(xxi) An ER model was introduced by	
a) E.F.Codd	b) P.P.Chen
c) Constantine	d) None of these
(xxii) The full form of ER Diagram is	
a) Entity -Relationship Diagram	b) Entity Relation Diagram
c) Entity Rotation Diagram	d) None of these
(xxiii) Which of the following cannot be u	used to modify the data in a database
a) update	b) insert
c) delete	d) drop
(xxiv) A logical description of some porti user to perform task is called as	on of database that is required by a
a) System View	b) User View
c) Logical View	d) Data View
(xxv) In an ER model, is des	scribed in the database by storing its data.
a) Entity	b) Attribute
c) Relationship	d) Notation
(xxvi) command is used for modify	ving an existing table.
a) CREATE	b) ALTER
c) DROP	d) None of these
(xxvii) DDL stands for	
a) Data Definition Language	b) Data Define Language
c) Data Dictionary Language.	d) None
(xxviii) Grant and revoke are staten	nents.
a) DDL	b) TCL

c) DCL	d) DML
(xxix) Select operator (?) works row wise where	e as project operator(?) works
a) Row wise only	b) Column wise only
c) Row wise only and Column wise only	d) None of these
(xxx) When we want to display records within a then we use	attributes from many relations
a) SELECT operation	b) PROJECT operation
c) JOIN operation	d) None of these
(xxxi) How many tables can be joined to create	a view
a) 1	b) 2
c) Depends on DBMS	d) None of these
(xxxii) The language used in application progra DBMS is referred	ms to request data from the
a) DML	b) DDL
c) VDL	d) SDL
(xxxiii) The aggregation operation adds	up all the values of the attribute
a) add	b) avg
c) max	d) sum
(xxxiv) What is a subquery?	
a) A subquery is a select-from-where expression that is nested within another query	b) A subquery is any query that is nested within another query
c) A subquery is a relation that is externally specified which can be used to handle data in queries	•

(xxxv) select distinct dept_name from institute	Explanation of this query is
a) It gives all the tuples having a distinct dept_name	b) It gives the dept_name attribute values of all tuples without repetition
c) It gives all the dept_name attribute of all the tuples	d) It gives all the tuples having a null value under the dept_name attribute
(xxxvi) Which of the following information doe	es an SQL DDL not specify?
a) The schema for each relation	b) The integrity constraints
c) The operations on the tuples	d) The security and authorization information for each relation
(xxxvii) What is the syntax to load data into the database and a, b, c as data)	database? (Consider D as the
a) enter into D (a, b, c);	b) insert into D values (a, b, c);
c) insert into D (a, b, c);	d) insert (a, b, c) values into D;
(xxxviii) Which of the following syntax of the	basic query is correct?
a) select to	b) select <attribute> from <elation></elation></attribute>
c) select on	d) select of
(xxxix) A table joined with itself is called	
a) Join	b) Self Join
c) Outer Join	d) Equi Join
(xl) To delete a particular column in a relation t	he command used is
a) UPDATE	b) DROP
c) ALTER	d) DELETE
(xli) The operator is used to compare a	value to a list of literals values
that have been specified.	

a) BETWEEN	b) ANY	
c) IN	d) ALL	
(xlii) The database schema is writ	tten in	
a) HLL	b) DML	
c) DDL	d) DCL	
(xliii) Key to represent relationsh	nip between tables is called	
a) primary key	b) secondary key	
c) foreign key	d) none of these	
(xliv) A primary key cannot be _		
a) void	b) null	
c) Void and null	d) None	
(xlv) A foreign key refers to anoth	her	
a) Table	b) Row	
c) Table and Row	d) None	
(xlvi) The candidate keys which a	are not selected as primary key is called	
a) Super Keys	b) Candidate Keys	
c) Alternate Keys	d) None of these	
(xlvii) A key that has no meaning	to the business or organization is	
a) Candidate Key	b) Alternate Key	
c) Artificial Key	d) None of these	
(xlviii) The column in the child ta	able that references a primary key of the parent	
a) Candidate Key	b) Foreign Key	
c) Composite key	d) None of these	

(xlix) A rule that states that in a base relation to key cannot be null is called as	he value of attribute of a primary
a) Entity Integrity Rule	b) Referential Integrity Rule
c) Security Integrity Rule	d) None of these
(l) A NULL means	
a) Unknown	b) Known
c) Known partially	d) None of these
(li) An instance of relational schema R (A, B, including NULL values. Which one of the foll	
a) A is a candidate key	b) A is not a candidate key
c) A is a primary Key	d) A is a candidate key and A is a primary key
(lii) Choose the correct statement regarding su	perkeys
a) A superkey is an attribute or a group of multiple attributes that can uniquely identify a tuple	b) A superkey is a tuple or a set of multiple tuples that can uniquely identify an attribute
c) Every superkey is a candidate key	d) A superkey is an attribute or a set of attributes that distinguish the relation from other relations
(liii) The files used for speedy disk search by p structures of data are classified as	providing the specialized
a) indexes	b) glossaries
c) content specification	d) listing documents
(liv) The "all-or-none" property is commonly in	referred to as
a) Isolation	b) Durability
c) Atomicity	d) None of the mentioned

(lv) Execution of translation in isolation pres	erves the	of a database
a) Atomicity	b) Consiste	ency
c) Durability	d) All of the mentioned	
(lvi) A transaction that has not been complete	ed successfully	is called as
a) Compensating transaction	b) Aborted	transaction
c) Active transaction	d) Partially	committed transaction
(lvii) The protocol that indicates when a tran of the data items is called as	saction may lo	ck and unlock each
a) Locking protocol	b) Unlocki	ng protocol
c) Granting protocol	d) Conflict	protocol
(lviii) If a transaction Ti may never make proto be	ogress, then the	transaction is said
a) Deadlocked	b) Starved	
c) Committed	d) Rolled b	ack
(lix) The two phase locking protocol consist	s which of the	following phases?
a) Growing phase	b) Shrinkii	ng phase
c) Both Growing phase and Shrinking Phase	d) None of	f the mentioned
(lx) In the scheme, a transaction first creates a complete copy of the database.		update the database
a) Shadow copy	b) Shadow	Paging
c) Update log records	d) All of th	e mentioned