

BRAINWARE UNIVERSITY

Term End Examination 2020 - 21

Programme – Diploma in Electronics & Communication Engineering
Course Name – Data Base Management System

Course Code - DECE304 Semester / Year - Semester III

Time allotted: 85 Minutes

Full Marks: 70

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

	Group-	\mathbf{A}	
	(Multiple Choice	e Type Question)	1 x 70=70
1.	(Answer any Seventy)		
(i)	The data model which describes how the dat	a is actually stored is	
	a) Internal model	b) External model	
	c) Logical model	d) None of these	
(ii)	The schema for hierarchical database is		
	a) A tree	b) A graph	
	c) A B-tree	d) None of these	
(iii) DBA stands for		
	a) Data Bank Access	b) Database Access	
	c) Data Bank Administration	d) Database Administrato	r
(iv)	Which of following are the properties of en	atities?	
	a) Groups	b) Table	
	c) Attributes	d) Switchboards	
(v)	Which of the following is the structure of the	ne Database?	
	a) Table	b) Schema	
	c) Relation	d) None of these	

(vi) Options are:The minimal set of supe	er key is called
a) Primary Key	b) Secondary key
c) Foreign key	d) Candidate Key
(vii) Options are: Which database level is	s closest to the users?
a) External	b) Internal
c) Physical	d) Conceptual
(viii) is a classical app	broach to database design?
a) Bottom-up approach	b) Top-down approach
c) Left-right approach	d) Right-left approach
(ix) Options are:A lock that allows conc rows of the same table is known as a	urrent transactions to access different
a) Multi-query	b) Super query
c) Sub query	d) Master query
(x) which of the following hardware corroperation of database management syste	-
a) High resolution video	b) Printer
c) Plotter	d) High speed, large capacity disk
(xi) The term attribute refers to a	of a table.
a) Record	b) Column
c) Tuple	d) Key
(xii) Database which is the database which is a snapshot or instant in time	
a) Instance,Schema	b) Relation,Schema
c) Relation, Domain	d) Schema,Instance

considered as a super key?	IVIE. Which one of this can be
a) NAME	b) ID
c) CITY	d) CITY, ID
(xiv) The subset of a super key is a candida	ate key under what condition?
a) No proper subset is a super key	b) All subsets are super keys
c) Subset is a super key	d) Each subset is a super key
(xv) The is the one in which the prinormal attribute in another relation	imary key of one relation is used as a
a) Referential relation	b) Referencing relation
c) Referenced relation	d) Referred relation
(xvi) Which one of the following is used to deleting relations and relating schemas?	define the structure of the relation,
a) DML(Data Manipulation Language)	b) DDL(Data Definition Language
c) Query	d) Relational Schema
(xvii) The basic data type char(n) is a varchar(n) is length character.	_ length character string and
a) Fixed, equal	b) Equal, variable
c) Fixed, variable	d) Variable, equal
(xviii) An attribute A of datatype varchar(2 B of datatype char(20) has value "Reed". Hattribute B has spaces	
a) 3, 20	b) 20, 4
c) 20, 20	d) 3, 4
(xix) Updates that violate are	disallowed.

a) Integrity constraints	b) Transaction control	
c) Authorization	d) DDL constraints	
	lect only those rows in the result relation	
of the clause that satisfy a specifi	ed predicate.	
a) Where, from	b) From, select	
c) Select, from	d) From, where	
(xxi) An is a set of entities of properties, or attributes	of the same type that share the same	
a) Entity set	b) Attribute set	
c) Relation set	d) Entity model	
(xxii) The descriptive property possess	ed by each entity set is	
a) Entity	b) Attribute	
c) Relation	d) Model	
(xxiii) The query given below will not following has to be replaced to get the name, salary * 1.1 WHERE instructor;	desired output? SELECT ID, name, dept	
a) Salary*1.1	b) ID	
c) Where	d) Instructor	
(xxiv) Which of the following statemen	nts contains an error?	
a) Select * from emp where empid	= 10003; b) Select empid from emp where empid = 10006;	
c) Select empid from emp	d) Select empid where empid = 1009 and lastname = 'GELLER'	
(xxv) In the given query which of the k	xeyword has to be inserted?	
a) Table	b) Values	
c) Relation	d) Field	

(xxv1) The entity relationship set is repres	ented in E-R diagram as
a) Double diamonds	b) Undivided rectangles
c) Dashed lines	d) Diamond
(xxvii) The Rectangles divided into two p	arts represents
a) Entity set	b) Relationship set
c) Attributes of a relationship set	d) Primary key
(xxviii) We indicate roles in E-R diagrams	s by labeling the lines that connect
a) Diamond , diamond	b) Rectangle, diamond
c) Rectangle, rectangle	d) Diamond, rectangle
(xxix) Weak entity set is represented as	
a) Underline	b) Double line
c) Double diamond	d) Double rectangle
(xxx) What term is used to refer to a speci-	•
a) Relation	b) Instance
c) Table	d) Column
(xxxi) Which relationship is used to repres	sent a specialization entity?
a) ISA	b) AIS
c) ONIS	d) WHOIS

(xxxii) There are similarities between the instructor entity set and the secretary entity set in the sense that they have several attributes that are conceptually the same across the two entity sets: namely, the identifier, name, and salary attributes. This process is called

a) Commonality	b) Specialization
c) Generalization	d) Similarity
(xxxiii) If an entity set is a lower-level entity	set in more than one ISA
relationship, then the entity set has	
a) Hierarchy	b) Multilevel inheritance
c) Single inheritance	d) Multiple inheritance
(xxxiv) The completeness constraint may be	one of the following: Total
generalization or specialization, Partial gene is the default	ralization or specialization. Which
a) Total	b) Partial
c) Should be specified	d) Cannot be determined
(xxxv) Which of the following is another nar	me for a weak entity?
a) Child	b) Owner
c) Dominant	d) All of these
(xxxvi) A table on the many side of a one to relationship must:	many or many to many
a) Be in Second Normal Form (2NF)	b) Be in Third Normal Form (3NF
c) Have a single attribute key	d) Have a composite key
(xxxvii) Which is a bottom-up approach to dexamining the relationship between attribute	
a) Functional dependency	b) Database modeling
c) Normalization	d) Decomposition
(xxxviii) Which forms has a relation that posentity:	ssesses data about an individual
a) 2NF	b) 3NF
c) 4NF	d) 5NF

(xxxix) Which forms are based on the concept of functional dependency:		
a) 1NF	b) 2NF	
c) 3NF	d) 4NF	
(xl) Which of the following is not Armstrong's	Axiom?	
a) Reflexivity rule	b) Transitivity rule	
c) Pseudotransitivity rule	d) Augmentation rule	
(xli) The normal form which satisfies multivalu BCNF is	ned dependencies and which is in	
a) 4 NF	b) 3 NF	
c) 2 NF	d) All of these	
(xlii) Which of the following is a tuple-generat	ing dependencies?	
a) Functional dependency	b) Equality-generating dependencies	
c) Multivalued dependencies	d) Non-functional dependency	
(xliii) Which of the normal form is based on m	ultivalued dependencies?	
a) First	b) Second	
c) Third	d) Fourth	
(xliv) If a multivalued dependency holds and is corresponding functional dependency, it usuall 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	
(xlv) In which of the following, a separate sche	ma is created consisting of that	

attribute and the primary key of the entity set

a) A many-to-many relationship set	b) A multivalued attribute of an entity set
c) A one-to-many relationship set	d) None of the mentioned
(xlvi) In 2NF	
a) No functional dependencies (FDs) exist	b) No multivalued dependencies (MVDs) exist
c) No partial FDs exist	d) None of these
(xlvii) R (A, B, C, D) is a relation. Which of th lossless join dependency preserving BCNF dec	
a) AàB, BàCD	b) AàB, BàC, CàD
c) ABàC, CàAD	d) AàBCD
(xlviii) Cardinality is termed as	in the relational model.
a) A number of tuples	b) A number of attributes
c) A number of tables	d) all of these
(xlix) There arekind of data models in	n DBMS.
a) 2	b) 3
c) 4	d) 5
(l) A traditional data administrator performs	
a) Tune database performance	b) Establish backup and recovery procedures
c) Resolve data ownership issues	d) Protect the security of the database
(li) is part of an administrative po	olicy to secure a database.
a) Authentication policies	b) Limiting particular areas within a building to only authorized people
c) Ensure appropriate responses rates are in external maintenance agreements	d) All of these

(lii) Backward recovery is	
a) Where the before-images are applied to the database	b) Where the after-images are applied to the database
c) Where the after-images and before-images are applied to the database	d) Switching to an existing copy of the database
(liii) In a relation between the entities the type should be specified. That is called asatt	
a) Descriptive	b) Derived
c) Recursive	d) Relative
(liv) A single valued attribute is	
a) Register_number	b) Address
c) SUBJECT_TAKEN	d) Reference
(lv) Not applicable condition can be represente	ed in relation entry as
a) NOT	b) NA
c) NULL	d) None of these
(lvi) The attribute AGE is, which c DATE_OF_BIRTH.	alculated from
a) Single valued	b) Multi valued
c) Composite	d) Derived
(lvii) A schema represents name	of the relation with its attributes.
a) relation schema	b) logical schema
c) Physical schema	d) None of these
(lviii) The set ofof a relation at a particurelation instance.	lar instance of time is called as
a) Tuples	b) Attributes

c) row	d) none of these
(lix) The number of tuples in a relation is kno	own as
a) Cardinality	b) Degree
c) Both Cardinality & Degree	d) None of these
(lx) Any set of attributes that allows us to ide given relation are called	ntify unique rows (tuples) in a
a) super keys	b) primary key
c) foreign key	d) None of these
(lxi) Tuple Relational Calculus is/are	query language
a) non-procedural	b) procedural
c) both non-procedural & procedural	d) none of these
(lxii) is the syntax for vie	ews where v is view name?
a) Create view v as "query name";	b) Create "query expression" as view
c) Create view v as "query expression";	d) Create view "query expression";
(lxiii)constraint helps to validate to particular condition.	the values of a column to meet a
a) CHECK	b) DEFAULT
c) Both CHECK & DEFAULT	d) None of these
(lxiv) is used to remove all records spaces allocated for the records are removed	Is from a table, including all
a) TRUNCATE	b) DROP
c) DELETE	d) None of these
(lxv) Ais a query that retrieves a view.	rows from more than one table or

a) Start	b) End
c) Join	d) All of these
(lxvi)are the join types in	join condition.
a) Cross join	b) Natural join
c) Join with USING clause	d) All of these
(lxvii) The file organization whi the join condition by using one b	ch allows us to read records that would satisfy block read is
a) Heap file organization	b) Sequential file organization
c) Clustering file organization	n d) Hash file organization
(lxviii) The highest level in the l	nierarchy of data organization is
a) Data bank	b) Data base
c) Data file	d) Data record
(lxix) are the type cluster indexes.	of Primary indexes, secondary indexes and
a) ordered indexes	b) un ordered indexes
c) linear indexes	d) none
(lxx)is an example o	f non dense index.
a) ternary index	b) secondary index
c) primary index	d) clustered index