

<b>Name:</b>	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, December 2019**

<b>Course: Database Management System With Accounting Software</b> <b>Program: BBA (AIS)</b> <b>Course code: FINC3003</b> <b>Instructions: All sections are compulsory:</b>	<b>Semester: V</b> <b>Time: 03 Hours</b> <b>Max. Marks: 100</b>
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**SECTION A** **(20\*1= 20 Marks)**

1.	A _____ in a table represents a relationship among a set of values. a) Column b) Key c) Row d) Entry	<b>CO1</b>
2.	The tuples of the relations can be of _____ order. a) Any b) Same c) Sorted d) Constant	<b>CO1</b>
3.	Which one of the following is used to define the structure of the relation, deleting relations and relating schemas? a) DML(Data Manipulation Language) b) DDL(Data Definition Language) c) Query d) Relational Schema	<b>CO1</b>
4.	Which data command is used to combine the records from one or more tables? a)SELECT b)PROJECT c)JOIN d)PRODUCT	<b>CO1</b>
5.	Course(course_id,sec_id,semester) Here the course_id,sec_id and semester are _____ and course is a _____ a) Relations, Attribute b) Attributes, Relation c) Tuple, Relation d) Tuple, Attributes	<b>CO1</b>
6.	Which of the following is not a valid SQL type? a)DECIMAL b)NUMERIC c)FLOAT d)CHARACTER	<b>CO1</b>
7.	CREATE TABLE employee (name VARCHAR, roll no INTEGER) What type of statement is this?	<b>CO1</b>

	a)DML b) DDL c)View d)Integrity constraint	
8.	Which operator perform Pattern matching? a)BETWEEN b)EXISTS c)LIKE d)None of these	<b>CO1</b>
9.	Which keyword must be used here to rename the field name? a)From b)Rename c)As d)Join	<b>CO1</b>
10.	The View of total database content is: a) Conceptual view. b)Internal View c) External view. d)Physicalview	<b>CO1</b>
11.	What term is used to refer to a specific record in your music database; for instance; information stored about a specific album? a) Relation b) Instance c) Table d) Column	<b>CO1</b>
12.	Which of the following is not the degree of relationship? a)Single b)Binary c)Ternary d)N-array	<b>CO1</b>
13.	A functional dependency is a relationship between or among: a)Tables b)Rows c)Attributes d)relations	<b>CO1</b>
14.	What is the full form of SQL? a)Structured Query Language b)Structured query List c)Simple Query Language d)None of these	<b>CO1</b>
15.	Which operator is used to compare a value to a specified list of values? a)BETWEEN b)ANY c)IN d)ALL	<b>CO1</b>
16.	Consider two tuples A and B, operation whose result includes tuples that are included in both relations is classified as	<b>CO1</b>

	a)intersection of relation A and B b)difference of relation A and B c)square of relation A and B d)union of relation A and B	
17.	The entity relationship set is represented in E-R diagram as a)Double Diamond b)Undivided Rectangles c)Diamond d) none of these	<b>CO1</b>
18.	Functional Dependencies are the types of constraints that are based on_____ a) Key b) Key revisited c) Superset key d) None of the mentioned	<b>CO1</b>
19.	An entity set that does not have sufficient attributes to form a primary key is termed a _____ a) Strong entity set b) Variant set c) Weak entity set d)Variable set	<b>CO1</b>
20.	Types of binary operations includes a)union b)intersection c)set difference d)all of above	<b>CO1</b>

**SECTION B**

**( 4\*5=20 Marks)**

**Attempt any four questions:**

21.	State about SELECT operation in Relational algebra?	<b>CO2</b>
22.	Enlist the advantages of normalizing database.	<b>CO2</b>
23.	What integrity rules exist in the DBMS?	<b>CO2</b>
24.	Primary key is used to uniquely identify the records in DBMS, Comment with example.	<b>CO2</b>
25.	Define all four basic operator available in SQL server.	<b>CO2</b>

**SECTION-C**

**( 3\*10=30 Marks)**

26.	Normalization is the process to remove the redundancy, discuss it briefly.	<b>CO2</b>
27.	What is the purpose of SQL?	<b>CO2</b>
28.	What are the different types of Normalization?	<b>CO2</b>

**SECTION-D****( 2\*15=30 Marks)**

29.	For the following relation schema R and set of Functional Dependencies F: R(A,B,C,D,E), F = { AC → E, B → D, E → A } List all candidate keys and Super Keys.	<b>CO4</b>
30.	Create a table Employee using SQL Query with attributes (E ID, E NAME, E AGE, E SALARY) and then insert some more values using INSERT command.	<b>CO4</b>