9

Q.P. Code: 30231

(2 ½ Hours)

[Total Marks: 75]

- N.B. 1) All questions are compulsory.
 - 2) Figures to the right indicate marks.
 - 3) Illustrations, in-depth answers and diagrams will be appreciated.
 - 4) Mixing of sub-questions is not allowed.
 - 5) Assume suitable data if necessary and state it clearly.
- Q.1 Attempt All.

(15M)

(a) Multiple Choice Questions

)Select _____ from instructor where dept name= 'Comp.

Sci.'; Which of the following should be used to find the mean of the salary?

- A) mean(salary)
- B)min(salary)
- C)avg(salary)
- D)average(salary)
- 2) Which of the following is the syntax for views 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";
- 3) Cartesian product in relational algebra is
- A) a Unary operator.
- B) a Binary operator.
- C) a Ternary operator
- D) not defined.
- 4) Architecture of the database can be viewed as
- A) two levels.
- B) four levels.
- C) three levels
- D)one level
- 5) Grant and revoke are statements.
 - A) DDL
 - B) DML
 - C) DCL
 - D) TCL

(8)

Q.P. Code: 30231

(b)I·II	column unique single committed to the the correct answer	
1)	column, unique, single, committed, length, DDL, DML]	
2)	In Mathematical term is called as tuple. Primary key should be	
3)		
4)	is one of the string handling function in mysql	
5)	Tunionon in the same and	
-,	" " " " " " " " " " " " " " " " " " "	
(c)A	nswer in one line.	
	Define DBMS.	
b)	Write syntax for inserting a row in a table.	
c)	Why security is needed in DBMS?	
	Define subquery.	
e)	Give one example of multivalued attribute.	
		30,000
	the following(Any THREE)	[15 M]
a) What are th	ne Levels of Abstraction?	
b) Explain Re	cord Based Logical Model.	
	ou mean by Binary Relationship and Ternary Relationship? Explain with	n cuitable
examples.		1 Sultable
d) What are th	ne characteristics of Relations?	
) Define follo		
i) Valu		
	nposite Attribute	
	NT NOT AND THE REPORT OF THE RESERVE	
	Iltivalued Attribute	
, M	iple Attribute	
- J.	ty Type	
	ER Diagram for Railway Reservation System.	
[Assume suita	ble data and mapping cardinalities exists.]	
	he following(Any THREE)	[15 M]
a) What do you	i mean by Functional Dependency?	[]
b) Explain foll	owing operations of Relational Algebra with algebraic query example.	
i) Selec	tion	
	s Product	
	Backup and Restore Database in MySQL?	
d) Explain Gro	up BY and Having Clause of MySQL with suitable query example.	
	Aggregate Functions used in MySQL.	
	lowing table. Underline fields are key fields.	
A STATE OF THE STA	ookid, title, author, publisher, category, price,)	
Part of the Part o	queries using MySQL-	
1) Create	e above table with bookid as Primary Key.	
N. 10 J.	Dogo 3 of 3	

Page 2 of 3

9

Q.P. Code: 30231

- ii) Find out Book titles starts with 'D'.
- iii) Add a column 'Year' with data type INT in Book table.
- iv) Find out Books with price in the range of Rs. 500 to Rs. 1000.

Q.4 Attempt the following(Any THREE)

[15 M]

- a) Explain any 5 String functions used in MySQL with example.
- b) What do you mean by Join? Explain Left outer join and Right outer join with suitable query example.
- c) What are the different threats to the databases?
- d) What do you mean by privileges with respect to databases? How to grant and revoke privileges?
- e) Write short note on correlated subqueries. Give example of it.
- t) Consider following tables:

Supplier(suppno, sname, city)

Orders(orderno, orderdt, qty,amt,suppno)

Solve following queries using MySQL:

- i) Display details of suppliers who have taken the orders.
- ii) Create a view showing the details of supplier living in each city.
- iii) Get the details of suppliers who have not taken any order. (Solve with subquery).

Q.5 Attempt the following (Any THREE)

[15 M]

- a) Write short note on Aggregation. Explain with example.
- b) What are the drawbacks of traditional file processing systems?
- c) What is the use of keyword 'Distinct' and 'all' in MySQL? Explain with query example.
- d) How to create and drop a user in MySQL?
- e) What do you mean by views? What are its types?

