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INSTRUCTIONS:

- 1. Paper is divided into 3 sections i.e TYPE A, B and C.
- 2. Type A, consists of 7 questions(1-7). Each questions carries 2 mark each
- 3. Type B, consists of 3 questions(8-10). Each questions carries 3 mark each
- 4. Type C, consists of 3 questions(11-13). Each questions carries 4 mark each
- 5. Internal Choices have been given for questions number 1,3,7,8 and 12

SECTION A (14 MARKS)

Q1. Alisha needs a network device that should regenerate the signal over the same network before the signal becomes tool weak or corrupted. Chris needs a network device to connect the different networks together that work upon different networking models so that the two networks can communicate properly.

A Say, "In this network topology, one malfunctioning node don't not affect that rest of the network and it is easy to add and remove nodes." B Say, "In this network topology, cable length required is less but if the main cable encounters some problem, whole network break down"

- Q2.(a) Name any two popular Email Sever name.
 - (b) I:
 - am a technology that allow you to make voice calls using a broad band internet connection.
 - If you are calling a regular phone number, the signal is converted to regular telephone signal before it call directly from a computer.

Who am I?

- Q3. i) Write SQL query to get the second highest salary among all Employees. (Table: Employee, Columns: Id, Salary, DeptID)
 - Write SQL Query to find employees that have same name and email. (Table: ii) Employee, Columns: ID, Name, Email)

OR

- i) What is the difference between where clause and having clause?
- ii) What is wrong with this query to get the list of employees not in Dept 1?

SELECT Name FROM Employee WHERE DeptID <> 1;

Employee Table:

ld	Name	DeptID
1	John	NULL
2	George	2
3	Smith	1
4	Ray	NULL

- Q4. Sahil, a class X student, has just started understanding the basics of Internet and web 2 technologies. He is bit confused in between the terms 'World Wide Web' and 'Internet'. Help him in understanding both the terms with the help of suitable example of each
- Q5. Help Reshma in predicting the output of the following queries:

 - i) select round(8.72,3);
 - ii) select round(9.8);

- Q6. Rohan, is a student of class 12 learning MySQL, he wants to remove leading and trailing 2 spaces from a character expression X, where X= 'LEARNING ###MYSQL####' (#denotes a blank space) and also give the output of X help him with an example
- Q7. Mr. Rohan, a HR Manager in a Vedanta Hospital has created the following table to store the records of Doctor:

ID	DOCNAME	DEPARTMENT	DOJ	GENDER	SALARY
1	AMIT KUMAR	Orthopedics	1993-02-12	M	35000
2	ANITA HANS	Pediatrics	1998-10-16	F	30000
3	SUNITA MAINI	Gynecology	1991-06-23	F	40000
4	JOE THOMAS	Surgery	1994-10-20	M	55000
5	GURPREET KAUR	Pediatrics	1999-11-24	F	52000
6	ANANDINI BURMAN	Oncology	1994-03-16	F	31000
7	SIDDHARTH DANG	Surgery	1995-09-06	M	47000
8	RAMA MUKHERJEE	Oncology	2000-06-27	F	54500

He has written following queries: Predict the output.

- i) select SUM(Salary) from Doctor where Department ='Surgery';
- ii) select Department, Count(*) from Doctor Group By Department;

OR

Based on the table given above, help Mr. Rohan writing queries for the following task:

- i) To display the names and salaries of doctors in descending order of salaries.
- ii) To display the name of each department along with total salary being given to doctors of that department

SECTION B (9 MARKS)

- Q8. a) Select concat("information", "technology")
 - b) Select instr("computer", "er")
 - c) Select truncate(465.4993, 2)
 - d) Select mod(5,2)
 - e) Select substr("information technology",-5)
 - f) Select month('2010-02-07');

OR

Write SQL statements for the following:

- i) Display the length of the string "Informatics Practices".
- ii) Display the position of "My" in "Enjoying MySQL".
- iii) Display the name of current month.
- iv) Display system date.
- v) Display date after 10 days of current date.
- vi) Display the day of current date
- Q9. Write the query for the following:
 - a) Display first three characters extracted from 5th right character onwards from string "ABCDEFG"
 - b) Convert and display string 'large' into uppercase.
 - c) Write a query to remove leading spaces of string 'RDBMS MySQL'.
 - d) Display the position of string 'LE' in field job of table Empl
 - e) How many characters are there in string 'CANDIDE'.
 - f) To compute the remainder of division between two numbers n1 and n2
- Q10. What are the aggregate function SQL, Explain 2 aggregate function with an example?

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SECTION C (12 MARKS)

Q11. Carefully observe the following table named 'STATIONARY':

ICODE	INAME	CATEGORY	QTY	UNITPRICE	STKDATE
444	DRAWING COPY	101	110	21	31-JULY-2010
445	SHARPENER CAMLIN	102	235	3	01-AUG-2010
450	ERASER NATRAJ	101	40	2	17-AUG-2010
452	GEL PEN MONTEX	103	50	5	30-DEC-2009
457	GEOMETRY BOX	101	35	45	15-11-2009
467	PARKER PREMIUM	102	60	205	27-OCT-2009
469	OFFICE FILE	103	32	25	13-SEP-2010

Write SQL queries for the following:

- (a) To display the records in decreasing order of price.
- (b) To display category and category wise total quantities of products.
- (c) To display the quantity and its average quantity.
- (d) To display category and category wise lowest price of the product
- Q12. Satyam, a database analyst has created the following table worker:-

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
001	MONIKA	ARRORA	100000	2014-02-20	HR
002	NIHARIKA	VERMA	80000	2014-06-11	ADMIN
003	VISHAL	SINGHAL	300000	2014-02-20	HR
004	AMITABH	SINGH	500000	2014-02-20	NULL
005	VIVEK	BHATI	NULL	2014-06-11	ADMIN
006	VIPUL	DIWAN	200000	2014-06-11	ACCOUNT
007	SATISH	KUMAR	75000	2014-01-20	ACCOUNT
800	GEETIKA	CHOHAN	90000	2014-04-11	ADMIN

He has written following queries:

- (a) select sum(salary) from worker where department='admin' and firstname like '%a';
- (b) select max(salary)*12 as Annual salary from worker where department= 'account';
- (c) select min (joining_date) from worker where salary>80000;
- (d) select length(FIRST_NAME) from worker where DEPARTMENT is NULL;

Help him in predicting the output of the above given queries.

OR

Ms. Sarkar is working on a MySQL table named 'Resort' having following structure

Field	Туре	Null	Key	Default	Extra
User_Id	Varchar(20)	Yes		NULL	
Name	Varchar(20)	Yes		NULL	
City	Varchar(20)	Yes		NULL	
Mobile_no	Varchar(11)	Yes		NULL	

She needs to perform following task on the table:

- i. To display the 2nd and 3rd characters from the user_id column.
- ii. To display the total no of characters in each city.
- iii. To display last 3 digits extracted from the mobile numbers of users.
- iv. To display the details of user whose city is in Mumbai, Delhi

Suggest suitable SQL function for the same. Also write the query to achieve the desired task.

- Q13. (a) What are the common services provided by any web portal?
 - (b) What s VoIP? Where is it used?

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