



INDIAN SCHOOL MUSCAT
SECOND PRE - BOARD EXAMINATION
TERM - 2
INFORMATICS PRACTICES (065)

CLASS: XII

Time Allotted: 2 hrs

09.04.2022

Max. Marks: 35

GENERAL INSTRUCTIONS

The question paper is divided into 3 sections – A, B and C

- ☐ Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- ☐ Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- ☐ Section C, consists of 3 questions (11-13). Each question carries 4 marks.
- ☐ Internal choices have been given for question numbers – 3, 8 and 12.

1. Define the following: 2
 - a) HTTP
 - b) Web Page
2. Write any two ADVANTAGES AND DISADVANTAGES OF Network. 2
3. Find the output of the following: 2
 - a) Select SUBSTR("CARTESIAN PRODUCT",2,3) from dual;
 - b) Select Truncate(5678.893,2);

(or)

Explain a) SUBSTR() b) Truncate()
4. Define VOIP and write any two common VOIP apps name, 2
5. Predict the output of the following: 2
 - a) Select mod(Year(2002-02-02),3) ;
 - b) Select round(23456.786,1);
6. What is the use of GROUP BY clause in MySQL? Explain with an example. 2
7. Ms. Saranya, a HR Manager in a multinational company "P&G" has created the following table to store the records of employees:

Table: Employee

Emp_id	Empname	Deptno	Salary
J4567	Gouri	100	3000
D2314	Yash	200	7500
A2345	Karan	100	3400
C4567	Rhea	100	5000
F3456	Scott	200	7000
T5432	Martin	300	4600

She has written following queries: (Predict the output)

- i) select Empname,emp_id from employee where salary >3000;
- ii) select ENAME from emp where Deptno =200 and empname like “%t”;

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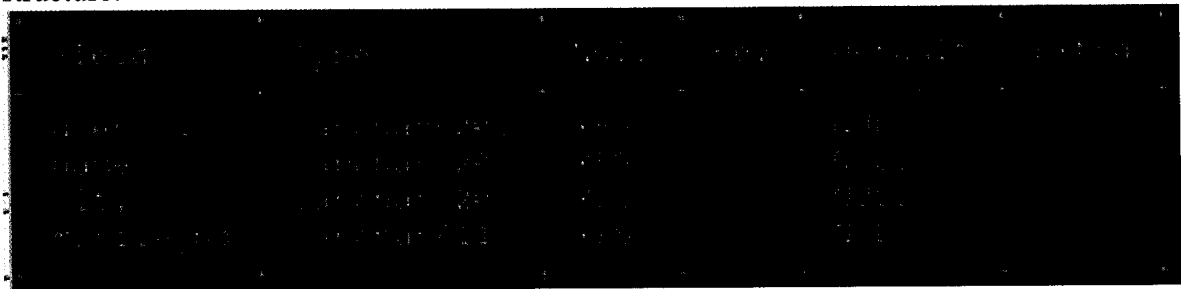
Section -B
Each question caries 3 marks

8. Predict the output of the following :
- i. Select length(concat(left(“Welcome”,3),right(“Welcome”,4)));
 - ii. Select substr(“VISIO2022”,length(“123”));
 - iii. Select dayname(now());

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OR

Ms.Praisy is working on a MySQL table named ‘MANAGEMENT’ having following structure:



The screenshot shows the following table structure:

Field	Type	Null	Key	Extra
NAME	VARCHAR(20)	YES		
CITY	VARCHAR(20)	YES		
STATE	VARCHAR(20)	YES		
ZIP	VARCHAR(20)	YES		
MOBILENO	VARCHAR(11)	YES		

- i. Write a query to display first 4 characters in capital letter of the CITY column.
 - ii. Write a query to count the number of characters of the NAME column.
 - iii. To display 3 characters from 5th place from the column name
- Suggest suitable SQL function for the same. Also write the query to achieve the desired task.

9. How cross join is different from equi- join? Explain with an example.
10. Explain any two single row functions and any two multirow function with an example.

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Section -C
Each question caries 4 marks

11. Carefully observe the following table named ‘MASTERFILE’:

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Table: MASTERFILE

Id	Prod_name	country	Prod_category	Price
A89765	Mouse	Taiwan	Input	345
G34567	Monitor	India	Output	650
S23453	USB	USA	Storage	200
K92761	KeyBoard	India	Input	540
J1234	HDD	Taiwan	Storage	100

Write SQL queries for the following:

- a. write a query to display how many products are there in each country.
- b. To display product name, product category and price of all the products name ends with the character 'e'.
- c. To display the Average product price of each category.
- d. To display all the product names whose product id starts with the character "A" and the price is more than 200.

12. Manish, a database analyst has created the following table:

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Table: Student

Rollno	Name	Clas_sec	Stream	AVGMark	Grade
1231	Umesh	12I	Commerce	345	C
2356	Chandini	12A	Science	NULL	B
6554	Bala	12G	Commerce	450	B
3451	Vishnu	12B	Science	399	C
4321	Girish	12K	Humanities	421	A
2134	Xavier	12G	Commerce	491	A

He has written following queries:

- (a) select count(avgmark) from student where class like "12%" and STREAM= 'Commerce';
- (b) select name, stream, avgmark from student where rollno <=2400;
- (c) select count(avg),clas_sec from student group by clas_sec;
- (d) select mid(NAME,3,2) from student where Avgmark >430;

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

OR

Based on the above given table named 'Student', Manish has executed following queries:

Select 100 from dual;
Select 100 from student;

Predict the output of the above given queries.
Also give proper justifications of the output generated through each query.

13. Explain the following terms:

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- a) ARPANET b) MODEM c) GATEWAY d) HUB

End of the Question Paper