Roll Number		

SET **A**

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

CLASS: XII TERM 2 Time Allotted: 2HRS.

02.03.2022 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.

MARKING SCHEME

1.	Define the following: a) Cookie - **Cookies** are text files with small pieces of data — like a username and password — that are used to identify your **computer** as you use a **computer** network. b) Web Browser-It is a special kind of program which is used to navigate the web pages.	2
2.	Write any two difference between web site and web page. 1. Web page is a hypertext document on the World Wide Web. Web site: a set of related web pages located under a single domain name, typically produced by a single person or organization.	2
3.	Find the output of the following: a) Select mid("Circular",1,4) from dual; Circ 1 b) Select pow(3,4); 81 1 mark (or) Explain a) mid( )- used to extract the number of characters from the specified position b) pow(): it is used to find the result of m^n	2
4.	How Add-ons are different from plugins? Explain. Plug-in is the term that is usually used when referring to third party software that is meant to interact with a certain program. An Add-on also extends the functionality of a certain program but they are usually meant to function on a certain program.	2
5.	Predict the output of the following: a) Select truncate(23.456,2) ; 23.45 1mark b) Select round(456.78,-1); 460 1 mark	2
6.	What is the use of ORDER BY clause in MySQL? Explain with an example. It is used to sort the records either in ascending or descending order of the field specified. Select * from emp order by salary.	2

7. Ms. Latha, a HR Manager in a multinational company "P&G" has created the following table to store the records of employees: 2

Table: Employee

Emp_id	Empname	Deptno	Salary
A2345	Karan	200	3000
C4567	Rhea	100	7500
F3456	Scott	100	3400
T5432	Martin	200	5000
D2314	Yash	300	7000
J4567	Gouri		4600
C7654	Hari	100	2500

She has written following queries: (Predict the output)

i) select Empname,deptno from employee order by salary;

correct out put 1 mark

ii) select ENAME from emp where empname Not like '%a%'; correct output 1 mark

Section -B
Each question caries 3 marks

8. Predict the out put of the following : 3

i. Select concat(left("Welcome",3),right("Welcome",4)); Welcome 1 mark
ii. Select instr("Corporate","or"); 2 1 mark
iii. Select year(now()); 2022 1 mark

OR

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

```
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | 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    |       |
+-----------+-------------+------+-----+---------+-------+
```

i. Write a query to display first 3 characters from the name column. Selct left(name,3) from management;

ii. Write a query to convert the city column as capital letter. Select ucase(city) from management;

iii. To display 5 characters from 4th place from the column user_id
Select substr(user_id,4,5) from management;

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

9.	Define join. Explain any two techniques to join the two table tables with an example. It is used to cobine two or more tables together. 1 mark each technique of join(s) 1+1 = 2makr	3
10.	Define TCL. How Commit is different from Roll back ? Explain with an example. Explanation of TCL 1 mark commit 1 mark and roll back 1 mark	3
	Section -C **Each question caries 4 marks**	
11.	Carefully observe the following table named **'MAINDATA'**: **Table: MAINDATA** Id | Prod_name | Prod_category | Price | Origin Taiwan India USA India Taiwan **Table: stock** **Pid** | **PName** | **Category** | **Qty** | **Price** 1 | Keyboard | IO | 15 | 450 2 | Mouse | IO | 10 | 350 3 | Wifi-router | NW | 5 | 2600 4 | Switch | NW | 3 | 3000 5 | Monitor | O | 10 | 4500 6 | Printer | O | 4 | 17000 Write SQL queries for the following: a. To display how many records are there in each product category. Select prod_category,count(*) from maindata group by prod_category; b. To display product name, product category and price of all the products from India. Select prod_name,prod_category,price from maindata where origin="india"; c. To display the maximum product price of each Origin. Select origin,max(price) from maindata group by origin; d. To display all the product details whose price is more than 200 and less than 500. Select * from maindata where price>200 and price <500;	4

12. Manish, a database analyst has created the following table: 4

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 Max(avgmark) from student where Grade="B" and STREAM= 'Commerce';
(b) select name, stream, avgmark from student where clas_sec IN("12I","12K");
(c) select avg(avgmark),clas_sec from student group by class_sec;
(d) select left(NAME,3) from student where Avgmark >359; each correct output 1 mark

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 count(*) from student; 6 counts all the records including null
Select count(avgmark) from student; 5 counts all the records excluding null

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

13. Explain the following terms: 4
a)MAN -metropolitan Area network – ½ mark explanation ½ mark b)SERVER - it is a main computer which is used for resource sharing 1 mark c)REPEATER – it is used to amplify the signals 1 mark d)TOPOLOGY – it is a pattern/layout where the computers are interconnected. 1mark

End of the Question Paper