

PRE-BOARD EXAMINATION TERM II (2021-22)
CLASS-XII
INFORMATICS PRACTICES

MAX.MARKS: 35

TIME ALLOWED: 2 HOURS

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 7, 8 and 12.

Section -A

Each question carries 2 marks

Q No

- | | | |
|---|--|---|
| 1 | Differentiate between Add ons and Plug-ins | 2 |
| 2 | (i) Define Web hosting. | 1 |
| | (ii) Expand:
SMTP and HTTP | 1 |
| 3 | Shanya Khanna is using a table EMPLOYEE. It has the following columns: Admno, Name, Agg, Stream [column Agg contains Aggregate marks] She wants to display highest Agg obtained in each Stream. She wrote the following statement:
SELECT Stream, MAX(Agg) FROM EMPLOYEE;
But she did not get the desired result. Rewrite the above query with necessary changes to help her get the desired output. | 2 |
| 4 | Differentiate between static and dynamic web pages. | 2 |
| 5 | a. Help Isha in predicting the output of the following query:
select round(3064.82,-1);
b. Given a decimal number 1905.675, write command in SQL to round it off to the number 2000. | 2 |
| 6 | Differentiate between Where and Having with example. | 2 |
| 7 | Consider the following SQL string: “Mental Toughness Helps You Succeed” Write commands to display following using functions:
a. “Toughness”
b. “Succeed” | 2 |

OR

Considering the same string: “Mental Toughness Helps You Succeed”

Write SQL commands to display:

- a. the position of the substring ‘Helps’ in the string “Mental Toughness Helps YouSucceed”
- b. the first 6 letters of the string

SECTION – B

Each question carries 3 marks

8 Consider the shop table given below:

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Consider the table : Shop

Id	SName	Area	Bonus	DateofOpen
S001	ABC Computronics	CP	1000.89	2010-11-20
S002	All Infotech	GK II	2345.987	2015-09-12
S003	Tech Shoppe	CP	761.46	2013-07-25
S004	Geek Tenco Soft	Nehru Place	456.923	2019-10-10
S005	Hitech Solution	GK II	1000.025	2008-12-20

She need to perform following task on the table:

- Display the position of occurrence of the string “tech” in shop names.
- Display three characters from shop name starting from second character.
- Display the month name for the date of opening of shop.

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

OR

Predict the output of the following queries:

- select dayname(now());
- select left('Nitika',3);
- Select mod (4,3);

9 How is SYSDATE () different from NOW()? Give example.

3

10 Differentiate between single row functions and multiple row functions.

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Section C

Each question carries 4 marks

11 Write commands in SQL for (a) to (d)

4

Table: Store

StoreId	Name	Location	City	NoOfEmp	DateOpen	SalesAmt
S101	Planet Fashion	Bandra	Mumbai	7	2015-10-16	40000
S102	Vogue	Karol Bagh	Delhi	8	2015-07-14	120000
S103	Trends	Powai	Mumbai	10	2015-06-24	30000
S104	Super Fashion	Thane	Mumbai	11	2015-02-06	45000
S105	Annabelle	South Extn.	Delhi	8	2015-04-09	60000
S106	Rage	Defence Colony	Delhi	5	2015-03-01	20000

- To display names of stores along with SalesAmount of those stores that have ‘fashion’ anywhere in their store names.
- To display names of the cities and the total amount of sales on the basis of City.
- To display the date of opening of the oldest store.
- To display the City and the number of stores located in that city, only if number of stores is more than 2.

12 Consider the table TEACHER given below. Write commands output for (i) to (iv)

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ID	Name	Department	Hiredate	Category	Gender	Salary
1	Tanya Nanda	SocialStudies	1994-03-17	TGT	F	25000
2	Saurabh Sharma	Art	1990-02-12	PRT	M	20000
3	Nandita Arora	English	1980-05-16	PGT	F	30000
4	James Jacob	English	1989-10-16	TGT	M	25000
5	Jaspreet Kaur	Hindi	1990-08-01	PRT	F	22000
6	Disha Sehgal	Math	1980-03-17	PRT	F	21000
7	Siddharth Kapoor	Science	1994-09-02	TGT	M	27000
8	Sonali Mukherjee	Math	1980-11-17	TGT	F	24500

- i. SELECT MAX(Hiredate) FROM Teacher;
- ii. SELECT DISTINCT(category) FROM teacher;
- iii. SELECT COUNT(*) FROM TEACHER WHERE Category = "PGT";
- iv. SELECT Gender,AVG(Salary) FROM TEACHER group by Gender;

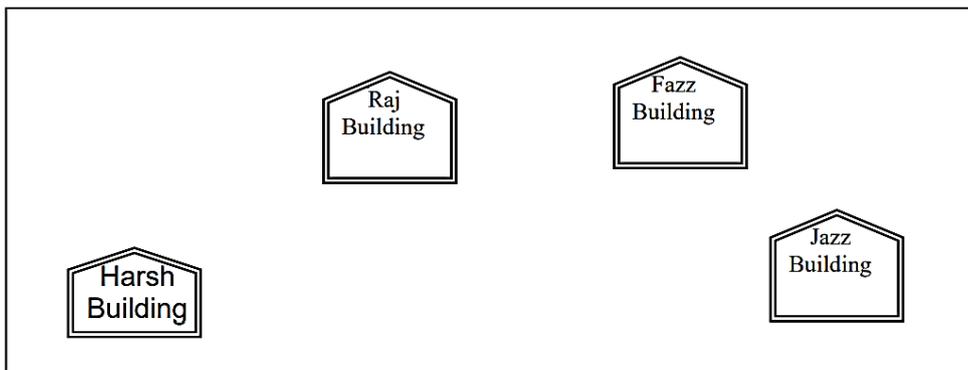
OR

Write the output of the following SQL queries:

- i) SELECT TRUNCATE(8.975,2);
- ii) SELECT MID('HONESTY WINS',3,4);
- iii) SELECT RIGHT(CONCAT('PRACTICES', 'INFORMATICS'),5);
- iv) SELECT DAYOFMONTH('2015-01-16');

13 Ravya Industries has set up its new center at Kalka Nagar for its office and web based activities. The company compound has 4 buildings as shown in the diagram below:

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Center to center distances between various buildings is as follows:

Harsh Building to Raj Building	50 m
Raz Building to Fazz Building	60 m
Fazz Building to Jazz Building	25 m
Jazz Building to Harsh Building	170 m
Harsh Building to Fazz Building	125 m
Raj Building to Jazz Building	90 m

Number of Computers in each of the buildings is follows:

Harsh Building	15
Raj Building	150
Fazz Building	15
Jazz Bulding	25

- a. What will be the best possible connectivity out of the following you will suggest to connect the new setup of offices in Chennai with its London based office.
- Satellite link
 - Infrared
 - Ethernet Cable.
- b. Suggest the cable layout and topology to efficiently connect buildings?
- c. Suggest the placement of the following device with justification
- i. Repeater
 - ii. Modem
- d. Suggest a system (hardware/software) to prevent unauthorized access to or from the network.