Term2(XII) INFORMATICS PRACTICES (Code: 065)

Maximum Marks: 35 Time: 2Hours

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.
- \triangleright Internal choices have been given for question numbers -2, 3, 8 and 12.

Section-A

	Each (question carri	es 2 marks		
1. Choose the	correct answer-				2
i)A website is	a collection of				
a. Web Server	rs b. Web pages	c. Bro	wsers	d. Hyperlinks	
ii) The proces	ss of getting web pages			• •	nputer is called
a. FTP	b. Uploading	c. Downloadii		Remote access	1
research work matter.	t has to work on his sc k is required by him fo	or the same. He			
_	ome is an example of a b. Web browser	c. Web Page	d. Web Pa	ge	
	locates some useful inf tually known as a me b. Web Page	·		link provided to acces	s the website.
the difference 3. Predict the i. Sele	nner in IT field has just between website and voutput of the following ect power(-3,3); ect mod(49,4); OR	web pages with	-		_
i. left(•	llowing SQL fu	unctions:		
ii. nov	s just created a website	for her compar	ny and navy	need to heet it Priefly	discuss the
	server in hosting a web	-	Ty and now	need to nost it. Differry	2
	l in predicting the output		ing queries		$\frac{2}{2}$
-	d(458.7722,3);	at of the follow	ing queries.	•	2
,	d(458.7722,-3);				
,	atabase administrator,	has grouped red	cords of a ta	ble with the help of gr	oup by clause.
He has also se clause. Write	een the records either i	n ascending or	in descendi	ng order with the help	- ·
2 7 Mrs Dutta	a class teacher in "S	outh Point Sch	ool " has or	eated the following to	hle to store the
records of stu		oudi i oiiit ocii	ooi nas ci	cated the following ta	2

Student

Admn	Name	Stream	Optional	Average
1001	Shrishti	Science	CS	90
1002	Ashi	Humanities	Maths	80
1003	Aditya	Commerce	IP	60
1004	Ritu Raj	Science	IP	65
1005	Sonali	Commerce	Maths	60
1006	Saumya	Science	IP	65

She has written following queries:

- i) select avg(Avergae) from Student where Stream='Science';
- ii) select left(Name,3) from Student where Average!=60;

Predict the output.

OR

Based on the table given above, help Mrs. Dutta writing queries for the following task:

- i) To display the name of student getting highest average.
- ii) To display the names of those students where names contain the letter 'i' in the third position.

Section-B

Each question carries 3 marks

- 8. Predict the output of the following queries:
- i. select right(substr('sps@ghy.nic.in',2,7),3);
- ii. select upper(left('sps@ghy.nic.in',3));
- iii. select length(mid('sps@ghy.nic.in',-6));

OR

Consider the following table- Employee

Table: Employee

No	Name	Salary	Zone	Age	Grade	Dept
1	Mukul	30000	West	28	A	10
2	Kritika	35000	Centre	30	A	10
3	Naveen	32000	West	40		20
4	Uday	38000	North	38	C	30
5	Nupur	32000	East	26		20
6	Mokesh	37000	South	28	В	10
7	Shelly	36000	North	26	A	30

Based on this table write SQL statements for the following queries: -

- i. To display the total salary for all the employees who are from West zone.
- ii.To count no of employees without any grade.
- iii.To display zone wise highest salary and lowest salary.
- 9. Priya is working with functions of MySQL. Explain her following-
- i. What is the purpose of DAY () function?
- ii. Name any date function that returns integer type data.

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- iii. What is the general format of date() function's return type?
- 10. Sate any two differences between single row functions and multiple row functions.

Section-C

Each question carries 4 marks

11. Consider the following table –Person

PID	PName	DOB	Gender	Address	Salary
P101	RRajkumar	1977-01-12	M	Delhi	45678.99
P102	S Singh	1965-12-31	M	Delhi	78954.50
P103	R Shukla	1987-11-23	F	Mumbai	23456.00
P104	K Kamal	1999-05-21	M	Mumbai	43222.99
P105	A Bose	1989-01-01	F	Kolkota	31000.00

Write SQL queries for the following:

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- (a) To display the records in decreasing order of Salary.
- (b) To display Address and Address wise total number of persons.
- (c) To display the Address and its total salary.
- (d) To display Address and Address wise oldest person's age.
- 12. Bimal, a database analyst has created the following table:

Table: TRANSPORTER

ORDERNO	DRIVERNAME	SALARY	ITEM	TRAVELDATE
10012	RAM YADAV	9876.99	TELEVISION	2019-04-19
10014	SOMNATH SINGH	12345.50	FURNITURE	2020-01-12
10016	MOHAN VERMA	15999.50	WASHING MACHINE	2019-06-06
10018	RISHI SINGH	6575.99	REFRIGERATOR	2020-04-07

He has written following queries:

- (i) select sum(SALARY) from **TRANSPORTER** where YEAR(TRAVELDATE)=2019;
- (ii) select max(SALARY)+min(SALARY) from **TRANSPORTER** where LENGTH(ITEM)>=10;
- (iii) select avg(SALARY) from **TRANSPORTER** where RIGHT(DRIVERNAME,1)='H';
- (iv) select instr(DRIVERNAME,'M') from TRANSPORTER where

MONTHNAME(TRAVELDATE)='April';

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

OR

Write SQL queries using SQL functions to perform the following operations:

- (i) Display Item name along with year of the travel date all the items which item is Furniture.
- (ii) Display the details of all it item where item names containing more than 10 characters.
- (iii) Display first 3 characters of item names and last 3 characters of driver names.

- (iv) Display Order no, driver names and salary rounded to the nearest rupee of all the items.
- 13.Radha Industries has set up its new production unit and sales office at Ranchi. The company compound has 4 buildings as shown in the diagram below:



Distances between these buildings are as follows:

Administrative Office to Factory A 150 m

Factory A to Factory B 50 m

Factory B to Sales Office 100m

Sales Office to Administrative office 200m

Administrative Office to Factory B 125 m

Number of Computers in each of the buildings is follows:

Administrative Office - 15

Factory A - 25

Factory B - 18

Sales Office - 15

- a. Suggest the most appropriate topology of the connection between the offices.
- b. Suggest a cable layout of connections between the buildings so that each building is directly connected to Administrative Office.
- c. Suggest the most suitable place (i.e. building) to house the server of this production unit with a suitable reason.
- d. Suggest the placement of the following devices with justification:(i) Repeater(ii) Hub/Switch.