Roll Number		SET	В



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

CLASS: XII TERM 2 Time Allotted: 2HRS.

09.04.2022 Max.Marks: 35

GENI	ERAL 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:	
1.	Define the following: a) HTTP – hypertext transfer protocol 1/2mark explanation – ½ mark b) Web	2
	Page A web page (or webpage) is a hypertext document provided by a website and	
	displayed to a user in a web browser A website typically consists of many web pages .	
2.	Write any two ADDVANTAGES AND DISADVANTAGES OF Network.	2
	Any two advantage and disadvantages 1+1=2 mark	
3.	Find the output of the following:	2
	a) Select SUBSTR("CARTESIAN PRODUCT",2,3) from dual; ART 1 mark	
	b) Select Truncate(5678.893,2); 5678.89 1 mark	
	(or) Explain a) SUBSTR() it is used to extract the number of characters from the specified location	
	of the string 1 amrk b) Truncate(): it is used to cut the number of decimal point specified. 1	
	mark	
4.	Define VOIP and write any two common VOIP apps name,	2
	Voice over Internet Protocol (VoIP), is a technology that allows you to make voice calls using a	
	broadband Internet connection instead of a regular (or analog) phone line. 1. Dialpad. With Dialpad, you can talk, message, and meet with clients, teammates,	
	and more—all from the desktop or softphone / mobile app	
	2. CloudTalk App	
	3. Ooma Office	
	4. Google Voice / Google Hangouts	
	5. Freshcaller	
	6. Grasshopper	
	7. Line 2	
	8. NetFortris.	
5.	Any 2 apps name 1 mark Predict the output of the following:	2
٥.	rieurei ine output of the following.	

	nod(Year(2002-02-02),3); ound(23456.786,1); 234	0 1 mark 56.79 1 mark		
It is used to ke group by deptn	of GROUP BY clause in Mep all the similar records togo; 1 mark or any valid exa	gether. 1 mark select ample 1 mark	deptno,count(*) from emp	
	a HR Manager in a multinat cords of employees: oyee	ional company "P&G"	has created the following	table
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	
C7654	Hari		2500	
i) select Emp proper outou ii) select ENA	name,emp_id from employ t 1 mark .ME from emp where Dept	•		2
proper outpu	t I mark	G 4 P		
	Each que	Section -B estion caries 3 marks		

		gth(concat(left("Welco str("VISIO2022",lengt	· - ·	(elcome",4))); 7 (O2022		3
	iii. Select day	rname(now()); satur	day			
			OR			
		orking on a MySQL	table named '	'MANAGEMENT'	having following	
	structure:	+	++-		++	
	Field	Type	Null	Key Default	Extra	
	user_id	varchar(20)	YES	NULL	i i	
	name	varchar(20)		NULL	i i	
	city mobile_n	varchar(20) o varchar(11)		NULL	+ +	
	+	+	+	+	+	
	i. Write a qu	nery to display first 4 cl	haracters in canit	al letter of the CITY	column	
	1	upper(left(city,4) from	•	an letter of the CIII	corumni.	
		nery to count the number	•	of the NAME column		
	Select	length(name) from ma	inagement;			
		3 characters from 5 th	•	olumn name		
		mid(name,5,3) from m SQL function for the sa	•	ha guary ta achiava tl	na dagirad tagk	
	Suggest suitable S	SQL function for the sa	ille. Also write t	ne query to acmeve ti	ie desifed task.	
		different from equi- jo				3
		ation with proper exam				
).		ation with proper exangingle row functions an			avamnla	3
).		it will work each and				3
	valid example – ½			Ι		
		n: it will work more th	an one row of a	table and produce a si	ngle result. 1 mark	
	Any valid exampl	le ½ mark	Section -C			
		Each	question caries	4 marks		
Ι.	Carefully obser	eve the following tab				
	j	O				4
	Table: MASTE				T	i
	Id	Prod_name	country	Prod_category	Price	
	A89765	Mouse	Taiwan	Input	345	
	G34567	Monitor	India	Output	650	
	S23453	USB	USA	Storage	200	
				1 -	= 40	
	K92761	KeyBoard	India	Input	540	

-	Switch	1400)	5000	Г
5	Monitor	0	10	4500	
6	Printer	0	4	17000	

Write SQL queries for the following:

- a. write a query to display how many products are there in each country.
 - Select country, count(*) from masterfile group by country;
- b. To display product name, product category and price of all the products name ends with the character 'e'.
 - Select prod_name,prod_category,price from Masterfile where prod_name like"%e';
- c. To display the Average product price of each category.
 - Select prod-category, avg(price) from Masterfile group by prod_category;
- d. To display all the product names whose product id starts with the character "A" and the price is more than 200.
 - Select prod name from Masterfile where id like "A5" and price >200;
- 12. Manish, a database analyst has created the following table:

Table: Student

Rollno	Name	Clas_sec	Stream	AVGMark	Grade
1231	Umesh	12I	Commerce	345	С
2356	Chandini	12A	Science	NULL	В
6554	Bala	12G	Commerce	450	В
3451	Vishnu	12B	Science	399	С
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;

Writing correct output 1+1+1+1=4marks

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; with the use of this command it will produce 100 one time. Dual is the dummy table which is used for general calculatin(s) 2 marks

Select 100 from student; with the use of this command it will produce 100 six times. The result will be based on number of records available based on a table mentioned. 2 amrk

Predict the output of the above given queries.

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	Also give proper justifications of the output generated through each query.	
3.	Explain the following terms: a)ARPANET ARPANET, in full Advanced Research Projects Agency Network , experimental computer network that was the forerunner of the Internet Its initial purpose was to link computers at Pentagon-funded research institutions over telephone	4
	lines. b)MODEM (modulator demodulator) A modem is a device that connects your home , usually through a coax cable connection, to your Internet service provider (ISP), like Xfinity. The modem takes signals from your ISP and translates them into signals your local devices can use, and vice versa. c)GATEWAY A router is a device that is capable of sending and receiving data packets between computer networks, also creating an overlay network. A Gateway , on the other hand, joins dissimilar systems. d)HUB A hub is a physical layer networking device which is used to connect multiple devices in a network . They are generally used to connect computers in a LAN. A hub has many ports in it. A computer which intends to be connected to the network is plugged in to one of these ports. 1+1+1+1=4 marks	
	End of the Question Paper	