PREBOARD EXAMINATION 2020 INFORMATICS PRACTICES

Class: XII

Date: 14-01-2020

Max. Marks: 70

Duration: 3 Hrs

Note:

(i) All questions are compulsory.

(ii) Answer the questions after carefully reading the text.

(iii) Give example wherever required.

(iv) Put the questions no. properly.

1	а		he given domains carefully and identify the categor	y it belongs out of	1
		l .	nce/e-Business/e-Learning:		
		i. ii.	AMAZON: <u>www.amazon.in</u> PMO(Prime Minister's office): <u>www.pmo.gov.in</u>		
		11.	PMO(Prime Minister's office): www.pino.gov.in	24	
	b	Foundation an online	a, works as a Programmer in a survey firm named n". In her current project, she is supposed to design e educational training program. Help her in cl	n a survey page for hoosing the most	
			te controls for the specified task from Textfield, La		·
		CheckBox	x, ListBox, ComboBox, Button and write in the third	i column:	
				T = 1	1 1
		S. No.	Control used to input	Control	
		1	TRAINEE'S NAME		
		2	TRAINING LOCATION		
		3	GRADE THE SESSION (Excellent, Good, Satisfactory, Unsatisfactory)		
		4	SUGGESTIONS		
		¥	: 8:	100	
2	C	List two d	isadvantages of e-governance to a disabled person.		1
	d	How is e-	learning beneficial for old people?		1

1			Age	Sala	ry		
2		Ajay	61	1400			
.2		Şunil	34	4400	00		
5		Chris	34	4000	00		
7		Amaaya	41	5200	00		
Orders	S						
Or	derld	Sales	perso	nld	Amount	7	
10		2			54000	1	
20		7			18000		
30		1			46000	1	
40		5			24000		
T	ne Salesper	sonId col	ımn ir	the "	Orders" tabl		KEY.
	an the 'Sale ason.	espersonId	l' be s	et as t	he primary l	cey in table 'Orde	ers'. Give
	ii. Selec	t * from S t * from S CRE Sales _I	alespe	erson,	Orders	rders.salespersor	ıId;

	е			salespersons ids and order ids of 'A' and sales amount is between	1				
	f	SELECT Salespers	on.salespersonId= Order	t FROM Salesperson, orders rs.salespersonId AND AGE	1				
3	a	While creating the table Student last week, Ms. Sharma forgot to include the column Game_Played. Now write a command to insert the Game_Played column with VARCHAR data type and 30 size into the Student table?							
	b	entered the marks	as 45. However there was reased by 5. Which M	or Rollnumber 2, the Class Teacher as a totaling error and the student has tySQL command should she use to	1				
	c	'Emp' Table. She displayed. Rewrite		e the "FirstName" is "Rama" in the ng SQL statement. An error is being					
	d	'CUSTOMERS'. S errors. Rewrite the	She has written the follow	er' in the already existing table wing statement. However, it has NDER char(1);	1				
	е	Consider the table	'Teacher' given below.		1				
		TeacherId	Department	Periods					
		T101	SCIENCE	32					
		T102	NULL	30					
		T103	MATHEMATICS	34					

1	Conside	er the table 'empsalary'.					
	ID	Salary					
	101	43000					
	102	NULL					
	104	56000	1				
	107	NULL					
	 To select tuples with some salary ,Siddharth has written the following erroneous SQL statement: SELECT ID, Salary FROM empsalary WHERE Salary = something; 						
	 Write the correct SQL statement. ii) What output will be displayed by the following SQL statement: SELECT AVG(Salary) FROM empsalary; 						
g	An attribute A of datatypevarchar(20) has the value "Amit". The attribute B of datatypechar(20) has value "Karanita". How many characters are occupied in attribute A? How many characters are occupied in attribute B?						
	Classify the following commands according to their type :(DDL/DML/TCL)						
h	Classify	(DDL/DIVIL/ICL)	1				
h	i. ii. iii. iv. v. vi. vii. viii. ix.	INSERT INTO Savepoint Create Table Rollback Update Delete Drop Table Select ALTER TABLE					

			select the values that m lues.	atch with any value	e in a list of specified				
		ii. Us	ii. Used to display unrepeated values of a column from a table.						
4	а	Phone_no in Immediately	the existing custon after adding the column	ner table using , she wrote the Ro	ded a new column called Alter table command. ollback command to undo te rollback successfully?	1			
	b	i. To iii. To iv. To	o display the list of the of use the database name or remove the pre-existing remove all the records ith its structure permanent of display the list of the termination.	latabases already of d City. In description of the table name of the table name ently.	existing in MySQL. Clients. d "Club" at one go along	2			
	c Consider the table below.								
		Tab	ole: Company	-	-1				
		EMPID	DEPARTMENT	SALARY					
		E101	PERSONNEL	60000					
		E102	ACCOUNTS	65000					
		E103	MARKETING	40000					
		E104	PERSONNEL	62000					
		E105	PERSONNEL	50000					
		E106	MARKETING	35000					
		statement. SELECT De FROM Com	c(s) in the following SQ epartment, Salary epany Department;	L statement. Rewr	rite the correct SQL				
	d		following table :			:			
		Table : RES	ULTS						

STUDENTID	NAME	EXAMID	SCORE
10	Leena	1	20
10	Leena	2	25
11	Samarth	1	30
11	Samarth	2	35
12	Jai	1	14
12	Jai	2	15
14	Shoaib	1	30
14	Shoaib	2	12

Abhay wants to know the number of students who took the test. He writes the following SQL statement to count STUDENTID without duplicates. However the statement is not correct. Rewrite the correct statement and find the output of the query.

SELECT DISTINCT (COUNT EXAMID) FROM RESULTS;

e Observe the given table named "Loan" carefully and predict the output of the following queries:

Loan

File_No	Cust_Name	PhoneNo	Loan Amt	Bank	Cheque Dt
619095	Ms. Roshni	9899965430	809876	HBDC Ltd,	2017-06-15
234252	Mr. Rajesh	8654327890	745738	ICUCI Ltd.	2017-07-22
543613	Mrs. Sapna	8883546354	NULL	NBI Ltd.S	2017-07-24
435467	Mr. Navneet	9764747474	647484	ICUCI Ltd.	2017-08-13
263427	Ms. Puja	8746454742	546373	HBDC Ltd.	2017-08-30

- i. SELECT TRUNCATE(8.975,2);
- ii. SELECT MID(Cust_Name,5) from Loan where Month(Cheque_Dt)=7;
- iii. SELECT CONCAT(Right(Cust_Name,5), Left(Bank,3)) where Loan_Amt is NULL;
- iv. SELECT DAYOFMONTH(Cheque_Dt) where Cust_Name like 'Ms.%';

			round(loan_amt- oan where loan_a			s "Discounted Payment	п
5	а	CREATE TABLE stu (id INTEGER, name VARCHAR(100)) Then,Aman enters the following INSERT INTO stu VALUES(1) INSERT INTO stu VALUES(2) INSERT INTO stu VALUES(3) INSERT INTO stu VALUES(4) Write the output that will be proposed to be presented in the count of the cou		ng SQL 1,"Farra 2,"Miya 3,"Farra 4,"Miya	statements to sh"); h"); sh");	enter 4 rows:	1
	b	GROUP BY	ated the following		with the nam	e 'Veterinary'.	2
		Animalld		Primary Key			
		VacinnationsDate					
		AnimalNa	me	Not Null			
	- 1				Andrew Commencer		
		OwnerNar	ne				
		OwnerNar	me ws inserted is as	follows			
		OwnerNar				me OwnerName	
		OwnerNar One of the roy	ws inserted is as		;	me OwnerName Amit Sharma	

		Animalld	VacinnationDate	AnimalName	OwnerName				
		A102	2015-08-09	NULL	Abhimanyu Shah				
С	What Mana		able to successfully		reason. 'Open Source Database				
а									
		Node 1 Hub/Swite	Node	2	Star Topology Node 3				
	II.	Node 5 Identify the t	ype of network (out on:	Node 4 of LAN/PAN/M	AN/WAN) formed in the				
				• • • • • • • • • • • • • • • • • • •					
b	Which	of the followi	ng are valid IP addr	esses? Give rea	son(s) if invalid	1			

	i) 121.23.1.45 ii) 192.168.0. 254 iii) 192.168.0.1 iv) 1981.1.1					
С	Write examples for URL and IP address.	1				
d	Which of the following activity can be termed as Eavesdropping:	2				
	 i. If Jack sets up an unauthorized parallel telephone line to capture the data. ii. If Jill has stolen his friend's keyboard. iii. If Martina installs some receiver hardware to capture the data while on its way. iv. If Kim gets someone's login information by casually watching what he/she is typing. 					
	Select the best suitable option from the following:					
	 i. Option i only ii. Option ii only iii. Option i and ii both iv. Option i and iii both How Eavesdropping is different from snooping by mentioning any one 					
	activitywhich will be termed as snooping?					
е	Ms. Sita trying to log into your Internet Banking account for online transaction activity. However, as strange as it may seem, she is denied of an access to the bank's website, in spite of having a swift internet connection. What do you think the reason behind this problem is and suggest her few simple precautions in order to overcome any such type of network security threats.	2				
f	Which of the following is/are notcommunication media? (i) Microwaves (ii) Optical Fiber cable (iii) Node (iv) Radio waves (v) Bluetooth (vi) Twisted Pair Cable. (vii) Coaxial Cable	1				

	Identify which of the above mentioned communication media are Wired media and which ones are Wireless media.	
g	It's an era of networking! Almost everyone and everything is connected through one wayor the other, hats off to the technology. We have never been so much linked as we aretoday. Daniel has just started his hands on practice of networking. Help him in the following:	2
	I. He has just connected 10 computers of his resource room to establish a network. Name the network (LAN/MAN/PAN/WAN) which will be formed. Mention any two main benefits which Daniel could achieve by establishing a network.	
	 II. Help him in identifying the correct topology which has following characteristics: Its very easy to diagnose the fault in this topology. Failure of central hub/switch leads to failure of the entire network. 	
sam	ABC CAR RENTALS NAME PHONE NUMBER O Deluxe Car Semi Deluxe Car Ordinary Car	
	Car Required for No. of Days	
	CALCULATE CLEAR CLOSE	
	Amount Guide Charges	
	Total Amount	

	Cha	opted. arges of services of Guide are extra.						
	Hel	Help Ms. Sharma in writing the code to do the following: After selecting appropriate Radio Button and checkbox (if required), whe 'CALCULATE' button is clicked, Amount, Guide Charges and Total Am should be calculated and displayed in the respective text fields						
		Category of Car	Amount(in Rs.)					
		Deluxe Car	1000 per day					
		Semi Deluxe Car	800 per day					
		Ordinary Car	700 per day					
		for which the car is taken.						
	b	When 'CLEAR' button is clicked, cleared.	all the textfields and checkboxes should be	1				
_	C	When 'CLOSE' button is clicked,	he application should close.	1				
	а	Given below is a code. <message> <text id="1">Hello, world!</text> </message>						
		Which language is used to write th	e above code?					
		What are <message></message> ,	id=2, <text> and </text> ?					

b	Shambhavi has to design two web pages with following specifications:	1
	i. One web page should have an unordered list.	
	ii. Another web page should have background "Yellow" in colour.	
	Suggest her suitable tag(s) and attribute(s) for the above specifications	
·c	Find the output of the following	2
	String a,b,c,d,x;	
	a="Ideal";	
	b="Indian";	
	c="School";	
	d="Doha";	
	int e = a.length()+b.length()/4+d.length()*2;	
	x=d+b+c;	
	<pre>x=a.concat(x); System.out.println("The value of e = "+e);</pre>	
	System.out.println(x.toUpperCase());	
	System.out.println(x.substring(5,9));	
d	Write the value of variable 'd' after executing the following code. inta,b,c,d;	1
	a=100;	
	b=++a;	
	c=b;	
	d=(10*b++)%3;	
е	First Code:	2
	int x=2,y=40;	
	$while(y \le x)$	
	{ jTextField1.setText(""+x);	
	x=x+8;	

```
Second Code:
          int x=2,y=40;
                 jTextField1.setText(""+x);
                 x=x+8;
          } while(y<=x);
   Third Code:
          intx,y=40;
          for(x=2,y<=x; x=x+8)
                 jTextField1.setText(""+x);
   From the above three codes, identify Entry controlled and Exit controlled loops.
   Will the output from the above two code be any different? Give reasons for
   your answer.
                                                                               2
   Find the output of the following code.
   Code 1:
           for(i=7; i>1; i-=3)
              jTextArea1.append(i+"\t");
    Code 2:
            for(i=7; i>1; i-=3)
              j TextArea1.set Text(i+"\t");\\
    Find the output of the following and How many times will the loop
g
    execute?
           int value1 =5, value2=21;
           {
                  JOptionPane.showMessageDialog(null,value1+value2);
```

		value1=value1+2; value2=value2-2; }while(value1<=value2);		
	h	her in finding solutions of her problem Help her in writing Java code to initiate val2 with values 15 and 20 respective	language, as it allows developers to write egardless of architecture or platform. Help ms: alize two integer variables named val1 and vely. Increase the value of val1 by 15 and verwrite the value of val2 with its double	1
	i	case 6: case 7: jOptionPane1.showMe		1
9	а	Predict the output of the following two codes:		
		Code 1	Code 2	
		<pre>int n=2,f=0,i; for(i=1;i<=n;i++) {</pre>	<pre>int n=2,f=0,i; for(i=1;i<=n;i++) {</pre>	
	b	Write Java statement to extract s i. listbox named "jList1." ii. Combobox name jCombo		1

C	Write Java statement to get the value from	1
1	i. Password field named jPasswordField1.	-
	ii. TextArea named jTextArea1	
	Toka ta Hamaa ji aka taa	
d	Write the output of the following HTML code.	1
	 start="3" type= "i" > 	
	Bake the mixture in oven for an hour	
	<pre>Remove from oven</pre>	
	Allow the mixture to stand for ten minutes	
	Serve	
е	Write examples of any oneproperty and any one method of	
	jTextAreacomponent	
		L
f	Distinguish between ComboBox and ListBox. When would you prefer using	1
	them over Radiobutton and Checkbox?	
g	What will displayed in jTextField1 when the following code is executed?	-
8	11240 1124 dasparajon angla dasparajon	
	int x=3,y=6,z=0;	
	if(x>3)	
	z=z+1;	
	if((x<4) && (y>6))	
	z=z+2;	
	1 :f(vr) 0 0 0 vr/6)	
	if(x>2 && y<6)	
	z=z+3;	

