Informatics Practices (Code: 065)

Sample Paper 2

Class XII (2015-16)

	Т	ime: 3Hrs.	M: 70
1	(a)	The 'Chalchitra' theatre has a computer network. The network is in one building. (i) Name this type of network(out of LAN/MAN/WAN). (ii) Name one communication channel that can be used for fast communication between workstations of the network.	(2)
	(b)	Explain in brief any 2 security threats to Computer networks.	(2)
	(c)	Write the advantages of using Unicode to represent text.	(2)
	(d)	Write one example each of URL and IP address.	(2)
	(e)	Identify the topology shown below. Write 2 advantages of this topology. Node 2 Star Topology Node 3 Node 5 Node 4	(2)
2	(a)	While working in Netbeans, Ms. Sonia has designed a login page where she wants to display "Welcome" or "Try again" message depending on the password entered by the user in text field named 'jTexField1'. If password entered is "India", 'Welcome' message should be displayed otherwise 'Try again' message should be displayed. Help her in choosing more appropriate statement out of 'If statement' and 'Switch statement'. Give reason for your choice.	(1)

	(b)	Write Java code to assign the value 10 to variable x and store its square value in another variable y.	(1)
	(c)	Deepti works as a programmer in a travel company. She has developed the following code to display travel detail according to user's choice. Help her in rewriting the same code using SWITCH CASE: if (choice==1)	(2)
		<pre>jTextField1.setText("New Delhi to Goa");</pre>	
		<pre>else if(choice==2) jTextField1.setText("New Delhi to Paris");</pre>	
		else if(choice==3)	
		<pre>jTextField1.setText("New Delhi to Bangkok"); else</pre>	
		<pre>jTextField1.setText("Pl. choose valid option");</pre>	
	(d)	Shambhavi has to design two web pages with following specifications: i. One web page should have an unordered list. ii. Another web page should have background "Yellow" in colour.	(2)
		Suggest her suitable tag(s) and attribute(s) for the above specifications.	
	(e)	Albert works as a website developer in Global Website Designers company. Currently he has created following tags in XML: <pre><student></student></pre> <pre><student></student></pre>	(2)
		Are these tags part of HTML code or XML code? Are these same same or different?	
	(f)	How many times will the loop execute?	(2)
		<pre>int value1 =7,value2=19; do {</pre>	
		JOptionPane.showMessageDialog(null,value1+value2); value1=value1+2; value2=value2-2;	
		}while(value1<=value2);	
3	(a)	Consider the table 'empsalary'.	(1)

	ID	Salary			
	101	43000			
	102	NULL			
	104	56000			
	107	NULL			
		, Salary Fi	ROM empsalary WHERE Sa	<pre>lary = something;</pre>	
(b)	Consider th	e table 'Emp	oloyee'.		(1
(b)			Location		(1
(b)	Employee				(1
(b)	Employee Name		Location		(1
(b)	Name Gurpreet		Location Mumbai		(1
(b)	Name Gurpreet Jatinder		Location Mumbai Chennai		(1
(b)	Name Gurpreet Jatinder Deepa		Location Mumbai Chennai Mumbai		(1

	Location						
	Mumbai						
	Chennai						
	New Delhi						
	Bengaluru						
(c)	Game_Played. N		and to insert the G	rgot to include the column same_Played column with	(1)		
(d)	marks as 45. How	In Marks column of 'Student' table, for Rollnumber 2, the Class Teacher entered the marks as 45. However there was a totaling error and the student has got her marks increased by 5. Which MySQL command should she use to change the marks in					
(e)	Consider the tabl	e 'Teacher' given be	elow.		(2)		
	TeacherId	Department	Periods]			
	T101	SCIENCE	32				
	T102	NULL	30				
	T103	MATHEMATICS	34	_			
	What will be the output of the following queries on the basis of the above table: (i)Select count(Department) from Teacher; (ii)Select count(*) from Teacher;						

(f)	Consider the Stu table					
		ROLLNO	NAME			
		1	Ashi			
		2	Bimmi			
		4	Aakash			
	The fo	ollowing SQ	L queries are	executed on the above table		
	INSE	RT INTO S	Stu VALUES(5,'Gagan');		
	COMM	IT;				
	UPDA'	TE Stu SE	ET name='Ab	hi' WHERE Rollno = 4		
	SAVE	POINT A;				
			Stu VALUES(6,'Chris');		
		POINT B;				
			Stu VALUES(7,'Babita');		
	SAVE	POINT C;				
	ROLL	BACK TO E	3;			
	What	will be the o	utput of the fo	lowing SQL query now:		
	SELEC	CT * FROM	Stu;			
(g)			of datatype value "K	archar(20) has the value "Amit" . The attribute B of aranita" .	(2)	

```
How many characters are occupied in attribute A? How many characters are occupied
        in attribute B?
4
        Following is a list of programming languages:
                                                                                          (1)
   (a)
        BASIC, COBOL, C, JAVA
        Help Sandhya in identifying Object Oriented language(s) from the above given list.
        Satyam is designing a frame in Netbeans containing list box. Help him in writing
                                                                                          (1)
   (b)
        suitable Java statement to extract selected item from a given listbox named "jList1."
        What will be displayed in jTextField1 and jTextField2 after the following code is
   (c)
                                                                                          (1)
        executed:
        int number = 12;
        if (number <15)
          jTextField1.setText(""+ number) ;
          number++;
          jTextField2.setText(""+ number) ;
          }
        else
          jTextField1.setText("number1") ;
          number++;
          jTextField2.setText("number2") ;
        Find output of the following Java code snippet:
                                                                                          (2)
   (d)
        String City="Delhi", PinCode="110001", Str="";
        City=City+" "+PinCode;
        JOptionPane.showMessageDialog(null,City);
        int l=City.length();
        int i=0;
        while(i<1)
        Str=Str+City.substring(6);
        i=i+15;
        }
        JOptionPane.showMessageDialog(null,Str);
        Rewrite the following code using WHILE loop:
   (e)
                                                                                          (2)
        int x=100;
        for (int i=2; i \le 22; i=i+4)
```

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jTextArea1.append("\n"+(i+x));
      x=x-2;
(f)
     The following code has error(s). Rewrite the correct code underlining all the
                                                                                          (2)
     corrections made:
           int n=5,int i=1,f=1;
           do;
           {
           f=f*i;
           i++;
           while(i<=n)
           jTextField1.setText(""+f);
     Mr. Pawan works as a programmer in "ABC Marketing Company" where he has
(g)
     designed a Salary generator software to generate the salary of salesman in which
     Name and Salary are entered by the user. A screenshot of the same is shown below:
                                                                 - - X
                             ABC Company
                                                               Units Sold
        Name
                       Arnav
                                                                   1 to 20
                       25000
        Salary
                                                                   21 to 40
                                                                   >40
        Commission
                       2000
                                              Commission
                                                                Facilities
        Gross Salary
                       27000
                                              Gross Salary
                                                                ✓ Transport
        Facilities Charges
                       500
                                                                Mess
                                            Facilities Charges
                       26500
         Net Salary
                                               Net Salary
     Help him in writing the code to do the following:
     i. After selecting appropriate Radio Button, when 'Commission' button is clicked,
                                                                                          2
     commission should be displayed in the respective text field as each Salesman will get
     a commission based on the units sold according to the following criteria:
```

			Units Sold	Commission (in Rs)			
			1 to 20	500			
			20 to 40	1000			
			>40	2000			
			text field as per ary= Salary+Com	the given form mission	ula:	1	
	iii. After required selection of Checkbox(es), when 'Facility Charges' button is clicked, Facility charges will be displayed in the respective text field according to the following criteria:						
			Facility	Charges			
			Transport	500			
			Mess	2000			
		iv. Money will be deducted the employee. When 'Net and displayed in the respec Net Salar	Salary' button is	s clicked, Net S per the given f	alary should be calculated	1	
5	(a)	Mrs. Sharma is the classteacher of Class 'XII A' She wants to create a table 'Student' to store details of her class. i) Which of the following can be the attributes of Student table? a) RollNo b) "Amit" c) Name d) 25 ii) Name the Primary key of the table 'Student'. State reason for choosing it.					
	(b)	Write the output of the foll i) SELECT TRUNCA:		es:		(2	
			8				

- ii) SELECT MID('HONESTY WINS',3,4);
- iii) SELECT RIGHT(CONCAT(\PRACTICES','INFORMATICS'),5);
- iv) SELECT DAYOFMONTH('2015-01-16');
- (c) Table "Emp" is shown below. Write commands in SQL for (i) to (iv) and output for (v) and (vi)

ID	NAME	AGE	ADDRESS	SALARY	PHONE
1	Siddharth	25	A-4, Ashok Vihar, Delhi	62000	98110766656
2	Chavi	23	B-21, Model Town, Mumbai	71000	99113423989
3	Karan	26	KC-24, North Avenue, Bhopal	65000	98105393578
4	Raunaq	22	A-152, Gomti Nagar, Lucknow	89000	99101393576
5	Kunal	27	B-5/45, Uday Park, Delhi	80000	97653455654

- i. To display list of all employees below 25 years old.
- ii. To list names and respective salaries in descending order of salary.
- iii. To count the number of employees with names starting with 'K'
- iv. To list names and addresses of those persons who have 'Delhi' in their address.
- v. SELECT Name, Salary FROM Emp where salary between 50000 and 70000;
- Vi. SELECT Name, phone from emp where phone like '99%';

6 (a)	Write SQL query t	co create a	table '	Player' with	the following structure:	2
		Field		Туре	Constraint	
		playe	erid	Integer	Primary key	
		name		Varchar(50)	
		heigh		Integer		
		weigl		Integer		
		datel		Date		
		team	name	Varchar(50)	
(b)	Consider the table Salesperson	es given bel	.ow.			2
	-	T	I.			
	SalespersonId	Name	Age	Salary		
	1	Ajay	61	140000		
	2	Sunil	34	44000		
	5	Chris	34	40000		
	7	Amaaya	41	52000		
	Orders	ı				
	OrderId	Salesperso	nld	Amount		
	10	2	į	54000		
	20	7	,	18000		
	30	1	4	46000		

		40		5	24000			
		Salesperso	nId col	umn in the "Orde	ers" table is	a KE	he KEY.The Y. Orders'. Give reason.	
	(c)	(ii) and out i. To di. To di. To names	itput for isplay Start we start we salesg	or (iii) below: SalespersonID, na names ,salesper vith 'A' and sales lespersonId, r	rsons ids ar amount is	ids and order amou d order ids of tho between 15000 and	lesperson, orders	6
7	(a)	would be	benefic	ial to the compa	ny to creat	•	y have decided that it would allow customers from the website.	(2)
	(b)	Which of the following is/are the advantage(s) of e-Governance i) technology makes governance speedier ii) Computer literacy and basic Internet usage is not required. iii) governance is made transparent, that is most of the information is available to public.						(1)
	(c)	Lakshmi works for a school. She wishes to create controls on a form for the following functions. Choose appropriate controls from Text field, Label, Radio button, Check box, List box, Combo box, Button and write in the third column.						
		S. No.	Contro	ol used to	Cont	rol		
		1	Enter	Admission numbe	er			
		2	Select	Stream				

3	Select Subject		
4	Clear the Form		