## Informatics Practices (Code: 065)

## Sample Paper 2

Class XII (2015-16)

	T	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 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)     jTextField1.setText("New Delhi to Goa"); else if (choice==2)     jTextField1.setText("New Delhi to Paris"); else if (choice==3)     jTextField1.setText("New Delhi to Bangkok"); else	(2)
		<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: <student></student> <student></student> Are these tags part of HTML code or XML code? Are these same same or different?	(2)
	(f)	How many times will the loop execute?	(2)
	(1)	<pre>int value1 =7,value2=19; do {     JOptionPane.showMessageDialog(null,value1+value2);     value1=value1+2;     value2=value2-2; }while(value1&lt;=value2);</pre>	(2)
3	(a)	Consider the table 'empsalary'.	(1)

	ID	Salary				
	101	43000				
	102	NULL				
	104	56000				
	107	NULL				
	Write the correct SQL statement.  Consider the table 'Employee'.					
(b)			nployee'.	(		
(b)	Employ  Name		Location	(		
(b)	Employ	ee				
(b)	Employ•	<b>ee</b> et	Location			
(b)	Name Gurpree	<b>ee</b> et	Location  Mumbai			
(b)	Name Gurpree Jatinde	<b>ee</b> et	Location  Mumbai  Chennai			
(b)	Name Gurpree Jatinde Deepa	<b>ee</b> et	Location  Mumbai  Chennai  Mumbai			

	L	ocation					
	M	umbai					
	С	hennai					
	N	ew Delhi					
	В	engaluru					
(c)	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?						
(d)	ind	arks as 45. How	vever there was a to	otaling error and the	Class Teacher entered the student has got her marks to change the marks in	(1)	
(e)	Со	nsider the table	e 'Teacher' given be	low.		(2)	
		TeacherId	Department	Periods	]		
		T101	SCIENCE	32			
		T102	NULL	30			
		T103	MATHEMATICS	34	]		
	(i	)Select count	output of the followi (Department) from		is of the above table:		

(f)	Consider the St	u table		(2)				
	ROLLNO	D NAME						
	1	Ashi						
	2	Bimmi						
	4	Aakash						
	The following S	SQL queries are	executed on the above table					
	INSERT INTO	Stu VALUES(	5,'Gagan');					
	COMMIT;							
	UPDATE Stu SET name='Abhi' WHERE Rollno = 4							
	SAVEPOINT A	<b>.</b> ;						
	INSERT INTO	Stu VALUES(	6,'Chris');					
	SAVEPOINT B;							
	<pre>INSERT INTO Stu VALUES(7, 'Babita');</pre>							
	SAVEPOINT C;							
	ROLLBACK TO	ROLLBACK TO B;						
	What will be the	What will be the output of the following SQL query now:						
	SELECT * FRO	M Stu;						
(g)		A of datatype v (20) has value "K	archar(20) has the value "Amit" . The attribute B of Caranita" .	(2				

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

	jTextArea1.app x=x-2; }	end("\n"+(i+x))	;			
(f)	<pre>corrections made :    int n=5,ir    do;    {     f=f*i;     i++;    while(i&lt;=r/&gt; </pre>	: nt i=1,f=1;	Rewrite the correct ;	code underlinin	g all the	(2)
(g)	designed a Salary	generator softwa	r in "ABC Marketing are to generate the subser. A screenshot of	salary of salesman	in which	
		ABC Com	pany			
	Name	Arnav		Units Sold		
	Salary	25000		<ul><li>1 to 20</li><li>21 to 40</li></ul>		
	Commission	2000	Commission	● >40		
	Gross Salary	27000	Gross Salary	Facilities    Transport		
	Facilities Charges	500	Facilities Charges	Mess		
	Net Salary	26500	Net Salary			
	Help him in writing	g the code to do th	e following:			
	commission should	I be displayed in th	Button, when 'Come respective text fie according to the foll	ld as each Salesma	•	2

			Units Sold	Commission (in Rs)			
			1 to 20	500			
			20 to 40	1000			
			>40	2000			
		ii. When 'Gross Salary' be displayed in the respective Gross Salaiii. After required selecticlicked, Facility charges will following criteria:	text field as per ary= Salary+Com on of Checkbox	the given form mission ((es), when 'F	ula: acility Charges' button is	1 2	
			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 tive text field as	s clicked, Net S sper the given f	alary should be calculated	1	
5	(a)	to store details of her class i) Which of the following ca a) RollNo b) "Amit" c) Nar	Net Salary= Gross Salary-Deductions  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%';

			Field playe		T <del>-</del>	<del></del>	
			playe		Туре	Constraint	
				erid	Integer	Primary key	
			name	j	Varchar(50)		
			heigh		Integer		
			weigl		Integer		
			datel		Date		
			team	name	Varchar(50)		
(b)	Co	onsider the table	s given bel	.ow.			
	Sa	lesperson					
		SalespersonId	Name	Age	Salary		
	_	1	Ajay	61	140000		
	_	2	Sunil	34	44000		
	_	5	Chris	34	40000		
	-	7	Amaaya	41	52000		

		40	5	24000				
		Salesperson	Id column in the "Or	ders" table is	sperson" table is the _ s a KEY. nary key in table 'Order			
	(c)	With reference to the above given tables (in Q6 b), Write commands in SQL for (i) and (ii) and output for (iii) below:  i. To display SalespersonID, names, orderids and order amount of all salespersons.  ii. To display names ,salespersons ids and order ids of those sales persons whose names start with 'A' and sales amount is between 15000 and 20000.  iii. SELECT SalespersonId, name, age, amount FROM Salesperson, orders WHERE Salesperson.salespersonId= Orders.salespersonId AND AGE BETWEEN 30 AND 45;						
7	(a)	would be be	eneficial to the com	pany to creat	cturing toys. They have te a website which would bys' would benefit from	ld allow customers	(2)	
	(b)	i) technolog ii) Compute	gy makes governance r literacy and basic	e speedier Internet usag	(s) of e-Governance ge is not required. s most of the informat	ion is available to	(1)	
	(c)	functions. C box, List box S. No. C	Choose appropriate x, Combo box, Butto Control used to Enter Admission num	controls from on and write Cont	reate controls on a forn n Text field, Label, Ra in the third column. rol	•	(2)	
		2 S	elect Stream					

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