## Sample Paper Grade XII Informatics Practices (Code: 065) 2014-15

Ti	me: 3ł	Irs. MM:	70
1	(a)	Draw a network layout of bus topology to connect 5 client computers and 1 server computer.	(1)
	(b)	Mr. John wants to prevent unauthorized access to/from his company's local area network. Write the name of a system (software/ hardware), which he should install to do the same.	(1)
	(c)	Which of the following are open source softwares : GNU, MS-Office, BOSS, Windows OS	(1)
	(d)	Name the government organization that contributes to the growth of FOSS in India.	(1)
	(e)	Read the given activities carefully and mention whether the activity is snooping or eavesdropping:	(2)
		<ul> <li>i. Getting someone's login information by casually watching what he/she is typing.</li> <li>ii. Setting up unauthorized parallel telephone lines</li> <li>iii. Installing some software/hardware which captures the data while on its way.</li> <li>iv. Reading the files on someone's computer in an unauthorized manner.</li> </ul>	
	(d)	Kristen has typed the following text in the address bar: http://www.cbse-international.com/help.htm Identify and differentiate the URL and Domain name with reference to the example	(2)
		given above.	
	(e)	Chanakya has to write a paragraph in English on nobel laureates as a part of his holiday homework. He is using a software in which he types the text in Hindi and the software automatically converts the text into English. For example, if he types "नोबेल प्राइज इस गवेन इन सक्स कैटेगरीज" the software converts it into "Nobel Prize is given in six categories".	(2)
		What kind of text entry is it - phonetic text entry OR keymap based text entry? How is it different from the other kind of text entry?	

2	(a)	In a java program Rajat wants to use a variable to store the quantity of an item which may be in whole numbers or decimals. Write a suitable java statement to declare the variable for the above mentioned purpose.	(1)
	(b)	<pre>What will be the values of num and num1 after execution of the following code:     int num,num1=0; for(num=100;num&lt;=101;num++) {     num1= num+2;    num1; }</pre>	(1)
	(C)	Zia is working with list box. She has placed a list control on her form to display the list of all items available in her shop. She wants to allow the user to select multiple items from her list control. Which property of jList should she use to do the same?	(1)
	(d)	<pre>Raman has typed the following code: int ch=Integer.parseInt(jTextField1.getText()); switch(ch) { case 1:jTextField2.setText("Service"); case 2: jTextField2.setText("Complaint"); case 3: jTextField2.setText("Operator"); break; default: jTextField2.setText("Not a valid entry"); } On entering the value 1, 2 or 3, he is getting the same output. Mention the possible reason for the same.</pre>	(1)
	(e)	Jennifer wants to write html code to create an ordered list starting with "c". Help her in writing the code.	(2)
	(f)	Write any two advantages of xml over html.	(2)
	(g)	Write java code that take any three digit number from the user in jTextField1, calculate the sum of the digits and display it in separate textfield named jTextField2.	(2)
		For example If the number entered is 432, it should answers as 9 (i.e. 4+3+2).	
3	(a)	Saumya had previously created a table named 'Product' in a database using MySQL. Later on she forgot the table structure. Suggest her suitable MySQL command through which she can check the structure of the already created table.	(1)
	(b)	Roli wants to list the names of all the tables in her database named 'Gadgets'. Which command (s) she should use to get the desired result.	(1)

		Kuhu has already created a table 'Hospital' as shown below:							
	Patient_No	Patien	t_Name	Disease		Age	Charges		
	P001	Alya	<u></u>	Viral Fever	•	14	500		
	P002					16	1500		
	P003	-		-		20	500		
	P004	Amar		-		22	2500		
	P005	Deep		Viral Fever	•	15	500		
				dress' to the	above	e given	table. Sugge	est	
the chan	ges made in tl							· · ·	
What will	be the output		5.		basis o	of Emp	loyee table:	(2)	
		-	-						
		•	•						
			-	• •					
		+	+	++					
(i)Select a	avg(Salary) fror	n Employ	/ee;						
(ii) Select	t Salary+100 fro	om Emplo	yee where	e Empld='A00	)2';				
A table named 'GAMES' has the following contents:									
	GCode GameN	lame	Number	of Plavers	Prize	Nonev	7		
				<u> </u>	5000		_		
		nton	2		12000		-		
1	103 Table T	Fennis	4		8000		_		
	·								
					• •	/ <b></b>			
	SELECT * FROM GAMES;								
INSERT INTO GAMES VALUES(105, 'CHESS',2,9000); ROLLBACK; SAVEPOINT S1; SELECT * FROM GAMES; (i)									
		UES(108,	'LAWN TEI	NNIS',4,2500	0);				
	,		יכחוכוירדי	11 20000					
		UES(109,		,11,20000);					
			(ii)						
_	suitable A Amit wor the chan command What will (i)Select (ii) Select (ii) Select (ii) Select A table na (iii) Select A table na (iii) Select NEELECT * SET AUTO INSERT IN ROLLBACI SAVEPOIN INSERT IN ROLLBACI	P003P004P005Now she wants to add a suitable MySQL commandAmit works as a databas the changes made in the command for the same.What will be the output(i)Select avg(Salary) from (ii) Select Salary+100 from (ii) Select Salary+100 from 101 Carom 102 Badmir 103 Table TGCode GameN 101 Carom 102 Badmir 103 Table TWrite the output that wi SELECT * FROM GAMES; SET AUTOCOMMIT = 0; INSERT INTO GAMES VAL ROLLBACK; SAVEPOINT S1; SELECT * FROM GAMES; INSERT INTO GAMES VAL ROLLBACK TO S2;	P003Manya P004P004AmarP005DeepNow she wants to add a new co suitable MySQL command for theAmit works as a database admin the changes made in the curre command for the same.What will be the output of the for the changes made in the curre command for the same.What will be the output of the for the changes made in the curre command for the same.What will be the output of the for the changes made in the curre 	P003       Manya         P004       Amar         P005       Deep         Now she wants to add a new column 'Add suitable MySQL command for the same.         Amit works as a database administrator in the changes made in the current transac command for the same.         What will be the output of the following que term         Image: Point of the same.         What will be the output of the following que term         Image: Point of the same.         What will be the output of the following que term         Image: Point of the same.         What will be the output of the following que term         Image: Point of the same.         What will be the output of the following que term         Image: Point of the same.         What will be the output of the following que term         Image: Point of the same.         (i)Select avg(Salary) from Employee;         (ii) Select Salary+100 from Employee where         A table named 'GAMES' has the following co 102         Badminton       2         101       Carom Board         102       Badminton         103       Table Tennis         Mrite the output that will be displayed by so SELECT * FROM GAMES; SET AUTOCOMMIT = 0; INSERT INTO GAMES VALUES(105, 'CHESS', 2, ROLLBACK; SAVEPOINT S1; SELECT * FROM GAMES;         SELECT * FROM GAMES;       <	P003       Manya       Cough and Bone Fract P005         P004       Amar       Bone Fract P005         P005       Deep       Viral Fever         Now she wants to add a new column 'Address' to the suitable MySQL command for the same.       Amit works as a database administrator in a Multinatic the changes made in the current transaction. Sugger command for the same.         What will be the output of the following queries on the +	P003       Manya       Cough and Cold         P004       Amar       Bone Fracture         P005       Deep       Viral Fever         Now she wants to add a new column 'Address' to the above suitable MySQL command for the same.       Amit works as a database administrator in a Multinational ba the changes made in the current transaction. Suggest to b command for the same.         What will be the output of the following queries on the basis of the command for the same.         What will be the output of the following queries on the basis of the command for the same.         What will be the output of the following queries on the basis of the command for the same.         What will be the output of the following queries on the basis of the command for the same.         (i)Select avg(Salary) from Employee;         (ii) Select Salary+100 from Employee;         (iii) Select Salary+100 from Employee;         (iii) Select Salary+100 from Employee where Empld='A002';         A table named 'GAMES' has the following contents:         GCode       GameName         Number_of_Players       PrizeM         101       Carom Board       2         102       Badminton       2       12000         103       Table Tennis       4       8000         Write the output that will be displayed by statements (i) and the select * FROM GAMES;       SELECT * FROM GAMES;	P003       Manya       Cough and Cold       20         P004       Amar       Bone Fracture       22         P005       Deep       Viral Fever       15         Now she wants to add a new column 'Address' to the above given suitable MySQL command for the same.       Amit works as a database administrator in a Multinational bank. He the changes made in the current transaction. Suggest to him a command for the same.         What will be the output of the following queries on the basis of Emp       ++         Image: Amit works as a database administrator in a Multinational bank. He the changes made in the current transaction. Suggest to him a command for the same.         What will be the output of the following queries on the basis of Emp         ++         EmpId   EName   Salary           ++         A001   Bob   5600             A001   Bob   5600           A002   John   NULL             A001   Bob   5600           A002   John   NULL             A003   Tom   5000         ++         (i)Select avg(Salary) from Employee;       (ii) Select Salary+100 from Employee where EmpId='A002';         A table named 'GAMES' has the following contents:          IO1       Carom Board       2       5000         102       Badminton       2       12000       103         IO2       Badminton       2       12000	P003       Manya       Cough and Cold       20       500         P004       Amar       Bone Fracture       22       2500         P005       Deep       Viral Fever       15       500         Now she wants to add a new column 'Address' to the above given table. Sugges suitable MySQL command for the same.       Amit works as a database administrator in a Multinational bank. He wants to und the changes made in the current transaction. Suggest to him a suitable MySQ command for the same.         What will be the output of the following queries on the basis of Employee table: <ul> <li>++</li> <li>+ Empld   EName   Salary  </li> <li>++</li> <li>+ A001   Bob   5600  </li> <li>+ A002   John   NULL  </li> <li>+ A002   John   NULL  </li> <li>+ A003   Tom   5000  </li> <li>++</li> </ul> (i)Select avg(Salary) from Employee where Empld='A002';           A table named 'GAMES' has the following contents:           GCode         GameName         Number_of_Players           101         Carom Board         2         5000           102         Badminton         2         12000         103         Table Tennis         4         8000         8000         8000         8000         8000         8000         8000         8000         8000         8000         8000         8000	

	(g)	Observe the given statements carefully:	(2)
		<ul> <li>(i) SELECT * FROM club WHERE salary between 20000 and 30000;</li> <li>(ii) SELECT * FROM club WHERE salary IN (20000, 30000);</li> <li>(iii) SELECT * FROM club WHERE salary &gt;= 20000 and salary &lt;=30000;</li> <li>(iv) SELECT * FROM club WHERE salary = 20000 OR salary = 30000;</li> </ul>	
		Make pairs of the equivalent SQL statements given above (which give the same output) and place each pair in a group.	
4	(a)	Define inheritance with reference to object oriented programming.	(1)
	(b)	Given a String object named 'code' having value as "908" stored in it. What will be result of the following?	(1)
		JOptionPane.showMessageDialog(null, " " +(code.length( )+ Integer.parseInt(code)));	
	(C)	What will be displayed in jTextField1 and jTextField2 after the following code is executed: int num = 35 , num1 = 46 ;	(1)
		jTextField1.setText( num + num1 + " " ) ;	
		jTextField1.setText( " " + num + num1 ) ;	
	(d)	Find output of the following java code snippet: String word="Highrise";	(2)
		String wordlc = word.toLowerCase();	
		for (int i = 0; i < wordlc.length(); i+=4)	
		{	
		<pre>String extstr = wordlc.substring(i,i+2);</pre>	
		jTextArea1.append(extstr+"\n");	
		}	
	(e)	Rewrite the following code using while loop: int a,b;	(2)
		for(a=10,b=4;a<=16;a++,b+=2){	
		jTextArea1.append(""+a++);}	
		JOptionPane.showMessageDialog(null,"Finished!!!");	
	(f)	The following code has error(s). Rewrite the correct code underlining all the corrections made : String str1 = SeemaSurakshabal; int b; for(int b = 0; b < 3, b++) { jTextArea1.showText(str1+"\n");	(2)

	(g)	Ms. Rakhi works in an International Bank as an IT Head. She designed a simple (6) interest calculator program as shown below:								
			🛃 International Bank							
			CUSTOMER NAME DEPOSIT AMOUNT ACCOUNT TYPE	Ms. Jenifer 10000 SAVING	O RECURRING DEP	Posit 🔾 fixed	) DEPOSIT			
			INTEREST RATE	4 INTEREST	RATE					
			DEPOSIT DURATION (IN	I YEARS)						
			SIMPLE INTEREST AMO	800.0						
		SI								
		CLEAR ALL								
		The interes	t rate is given l	based on the acc	ount type	as showr	n below:			
				ACCOUNT TYPE			T RATE %			
				SAVING		4 %				
				RECURRING DEP		6 % 8 %				
		<ul> <li>i. Write the code required for 'INTEREST RATE' button to display interest rate as per the above given criteria.</li> <li>ii. Write the code required for 'SI' button to calculate and display 'Simple Interest' based on the given formulae: SI=(amount*interest_rate*duration)/100;</li> <li>iii. Write the code required for 'CLEAR ALL' to clear all the textfields.</li> </ul>								
5	(a)	Observe the	e table 'Club' g	iven below: Clu	b				2	
			Member_id	Member_nam e	Address	Age	Fees			
			M001	Sumit	New Del	-	1000			
			M002	Nisha	Gurgaon		1500			
			M003 M004	Niharika Sachin	New Dell Faridaba		2100	_		
		i. V						]		
				inality and degree contact_no has		-		mbers have		
		j	oined the club	then how the e above given ta	se changes					

	(b)	Write the output of the following SQL queries:2								
					NATIONAL', 'NA	·).				
				•	ICAT('NETWORK	,,				
			.SELECT ROUN			, iii (0 <i>)</i> ),				
					('2014-01-30');					
	(c)	Pranav v	who is an Indi	an cre	eated a table n	amed "Frien	ds" to st	ore his fri	end's	6
	(C)	detail.		un, cre		anica men				0
			riends" is show	vn belo	w. Write comm	ands in SQL	for (i) to	(iv) and o	utput	
		for (v) to				-	( )	( )	•	
		S_No	Name	Age	City	Country	Email_i	d		
		1	Alice	14	Washington	USA	alice@g	mail.com		
		2	Charles	12	Copenhagen	Denmark	harles@	yahoo.com		
		3	Angel	16	Chicago	USA	angel@g	gmail.com		
		4	Jasmine	15	Sydney	Australia	-	@yahoo.co	m	
		5	Raj	14	New Delhi	India	<u>raj@gm</u>			
		6	Jette	13	Nykobing	Denmark		<u>mail.com</u>		
		7	Alexender	15	Melbourne	Australia	NULL			
		8	Shashank	16	Banglore	India	NULL			
					eigner friends.	م ما الم ما م ما م				
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			nark';	oneae(ii	ianie, jeiej//	inom men		country	tinte	
			'	e,1,4) a	s "UID" from fri	iends where d	country lil	ke 'USA';		
			,					,		
6	(a)	Write SO	L auerv to cre	ate a ta	able 'Bank_Cust	omer' with th	ne followi	ing structur	re:	(2)
•	()								•••	(-)
				Field		Туре	Con	straint		
				Acc_	No	Integer	Prin	nary Key		
				Cust_	_Name	Varchar(2	20) Not	Null		
				Cust_	_Add	Varchar(2	20)			
				Cust_	_City	Varchar(2	20)			
	(b)	In a Bank's database, there are two tables 'Customer_info' and (								(2)
	· /	'Transaction_Detail' as shown below:								
					Customer_ir	ifo				
		Acc	No Cust_Na	me (	Lust_Add	Cust_(		st_Phone	]	
		1001			asundhara Encla			10557614	-	
				V						

	1001002	Kavita		Punjabi	i Bagh		Now	Delhi	71225	45233		
	1001002			Civil Li				nabad		36576		
	1001003	~,		Krishna						305453		
	1001004	Jonan		- KI ISIIIIA	inagai		Γλάτιμ	ui	97Z13	00400		
				Tran	saction_D	)etail						
	Trai	ns_Id	Acc_No	C	Trans	actio	n_Type	Am	ount			
	T00	1	100100	)1	Credi	t		500	00			
	T00	2	100100	)2	Credi	t		100	000			
	Т00	-	100100		Debit			200				
	Т00		100100		Credi			600				
	Т00	5	100100	)1	Credi	t		400	00			
(c)	answer. ii. A tab Consider the	le can ha			0	Delow		s and f	oreign	keys?	(	(6)
					Flights	,						
	FNO	SOURC			DEST NO_O							
	IC301	MUMBA			BANGALORE			3 2				
	IC799	BANGA	LORE				8			3		
	MC101	DELHI	A 1		RANASI		6			0		
	IC302	MUMBA					1			<u>4</u> 0		
	AM812 MU499	LUCKN DELHI		DEI	ENNAI		4			<u> </u>		
	///////////////////////////////////////	DLLIII			LININAI		3			3		
					Fares							
		FNC		AIRLINES		FA	RE	TA	K			
		IC30		Indian Ai			25	5				
		IC79		Spice Jet			46	10				
		MC1		Deccan A			10	7				
		IC30		Jet Airwa			394	5				
		AM8		Indian Ai	runes		00	6				
		MU∠	199	Sahara		12(	000	4				
	With referen for (iii) belo		nese tal	bles, wri	te comm	ands	in SQL	for (i)	and (i	i) and ou	tput	
	than Rs.	10000.			rce, airlin rlines flig			-		re fare is cities.	less	

		<pre>iii. SELECT FLIGHTS.FNO, NO_OF_FL, AIRLINES FROM FLIGHTS,FARES WHERE FLIGHTS.FNO = FARES.FNO AND SOURCE='DELHI';</pre>								
7	(a)	What is t	he role	e of a good back-end in an IT application?		(1)				
	(b)	Identify e i) ii) iii) iv)	<ul><li>ii) On-line application submission for change of address in the passport.</li><li>iii) On-line bill payment of Water Charges to Jal Board of any state.</li></ul>							
	(c)	Raghuram is working as a Manager in the Santushti Enterprises. He wants to create a form with following functions. Choose appropriate controls from Text Field, Label, Radio button, Check box, List, Combo box and write in the third column:								
			Sno	Control used to :	Control					
			1.	Enter the name						
			2.	Select the department from the available list						
			3.	Choose type of employee (Permanent / Regular)						
			4.	Display the picture of the employee						