Sample Question Paper

Subject: Informatics Practices

Class: XII

Session 2016-17

Ti	me: 3 H	rs. M.M. – 7	0
1	(a)	After realizing the issues with proprietary software, Ms. Sunita has decided to use only Open Source Software. Suggest any one suitable open source software to her, for each of the following categories: i. Operating System ii. Browser	1
	Ans	 i. Linux or Google Chrome OS or any other open source OS (½ Mark for correct answer) ii. Mozilla Firefox or Google Chrome or any other open source browser (½ Mark for correct answer) 	
	(b)	Expand the following: i. ODF ii. PPP	1
	Ans	i. Open Document Format ii. Point to Point Protocol (½ Mark for each correct answer)	
	(c)	What is Domain Name Resolution?	1
	Ans	Domain Name Resolution is the process of getting corresponding IP address from a domain name. (1 Mark for correct answer)	
	(d)	How a Phonetic text entry is different from Keymap based text entry?	1
	Ans	Phonetic text entry is different from keymap based text entry as in the keymap based text entry keyboard keys are mapped to specific characters using a keymap whereas in phonetic text entry text translation is done by some software based on probable pronunciation of the entered text.	
	(-)	(1 Mark for correct difference)	2
	(e)	 Which of the following activity can be termed as Eavesdropping: 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 	2

	he/she is typing.				
	ne, one 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 activity which will be termed as snooping?				
A	iv. Option i and iii both				
	(1 Mark for correct answer)				
	Snooping refers to gaining unauthorized access to another person's or organisation's data: For e.g. Reading the files on someone's computer in an unauthorized manner.				
	(1 Mark for correct answer)				
(f)	It's an era of networking! Almost everyone and everything is connected through one way or the other, hats off to the technology. We have never been so much linked as we are today. Daniel has just started his hands on practice of networking. Help him in the following: 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. Depict the topology by drawing the diagram showing 4 interconnected computers through central hub/switch	4			
A	 i. LAN (1 Mark for correct answer) Benefits of Networking: Resource sharing Cost saving (½ Mark for each correct benefit) ii. Star Topology (1 Mark for correct answer)				

		(1 Mark for correct diagram)	
2	(a)	Shalini is learning Java programming language, as it allows developers to write code that can run on any machine, regardless of architecture or platform. Help her in finding solutions of her problems: I. She wants to compare two integer values for equality in her java code. Out of (=) and (= =), which operator she should use and why? II. Help her in writing Java code to initialize two integer variables named num1 and num2 with values 5 and 10 respectively. Increase the value of num1 by 5 and decrease the value of num2 by 5.	4
	Ans	I. = = operator As = operator is assignment operator which will be used to assign the values to any variable/constant while = = is comparison operator for equality. (1 Mark for correct answer) (1 Mark for correct explanation) II. int num1=5, num2=10; num1=num1+5; num2=num2-5; (½ Mark for each correct statement)	
	(b)	Mr. Sahil, a programmer in a VISA processing company, has written the following code: int ch=Integer.parseInt(jTextField1.getText()); switch(ch) { case 1: jTextField2.setText("Short Term Single Entry Visa Granted"); case 2: jTextField2.setText("Short Term Multiple Entry Visa Granted"); case 3: jTextField2.setText("Long Term Single Entry Visa Granted"); case 4: jTextField2.setText("Long Term Multiple Entry Visa Granted"); default:	2

	jTextField2.setText("Invalid Entry");						
	No matter what value is being entered in the text field jTextField1, this program always give a message "Invalid Entry". Help Mr. Sahil in identifying the problem and its reason. Also suggest him a suitable correction in the code.						
Ans	In absence of break 'fall through' condition occurs. As a result control will not be able to come out of the switch block after first matching. So all the messages will be overwritten by the last message i.e. "Invalid Entry" due to setText() method.						
	He should use break statement in each case. (1 Mark for correct identification of the problem and reason) (1 Mark for correct correction)						
(c)	Realizing the importance of the Internet, Ms. Shikha a Mathematics teacher, has decided to use Internet as a medium to teach her students Mathematics in an interesting way.	4					
	I. She wants to design a webpage as shown below to create a mathematics tutorial on the topic "Shapes" using HTML. Mathematics in a fun way Shapes Circle						
	Square						
	She has written following HTML code for the same but she is not getting the desired output. Help her in identifying the error(s) and suggest the suitable corrections:						
	<html> <head><title>Shapes</title></head> <body> Mathematics in a fun way</body></html>						

```
Shapes
     Images
      Circle
     <img source="circle.jpg">
     Square
     <img source="square.jpg">
     </body>
     </html>
     II. Help her in matching Column A with suitable statements of Column 'B'
     Column A
                           Column B
     XML
                           We use predefined tags to design
                           webpages.
     It is designed to store and HTML
     transport data
     Tags are not case sensitive
     HTML
                           Elements must have a closing
Ans
     <html>
     <head><title>Shapes</title></head>
     <body>
     //Correction 1
     Mathematics in a fun way
                                            //Correction 2 & 3
     Shapes
     Images
     Circle
     //Correction 4
     Square
```

	Г						
			//Correction 4				
		(½ Mark for each correct correction)					
		w.					
		II.					
		Column A	Column B				
		XML	Elements must have a closing tag.				
		It is designed to store and transport data	XML				
		Tags are not case sensitive	HTML				
		HTML	We use predefined tags to design				
			we use predefined tags to design webpages.				
			weopages.				
		(½ Mark for each correct matching)					
3	(a)	In today's digitized world with a need to st	ore data electronically, it is very	4			
		important to store the data in the databases.					
		Database Management System.					
		ggg					
		I. Classify the following commands accord i. INSERT INTO ii. AI	ing to their type :(DDL/DML) LTER TABLE				
		II. Which clause would you use with Select					
			a any value in a list of specified values.				
		ii. Used to display unrepeated values of	•				
		III. Chhavi has created a table named Order					
		value of a column named salesamount by 2					
		for the same.	o. She has written the following query				
		Alter table Orders Add salesa	amount =salesamount+20;				
		Is it the correct query? Justify.					
	Ans:	I.					
		i. INSERT INTO: DML command					
		ii. ALTER TABLE: DDL command					
		(½ Mark for each correct answer)					
		II.					
		a. IN					
		b. Distinct					
		(½ Mark for each correct answer)					

	III. No, Alter command is used to make changes to the structure of the table, but Chhavi has to make changes in the data stored in the table. Hence, she should write the following query:						
	Update Orders set salesamount =salesamount+20;						
	(1 Mark for the justification)						
	(1 Mark for the correct query)						
(b)	I. Name any one Single row function and any one Aggregate function. Also mention the difference in their working.	4					
	II. Explain why the following queries give different outputs on execution:						
	i. SELECT COUNT(ENAME) FROM EMP; Output: 5						
	ii. SELECT Count(*) FROM EMP; Output: 8						
Ans:	I.						
	Single row function: Length() (any single row function) Aggregate Function: Max() (any other aggregate function)						
	A single row functions works on every row of the table and hence gives output for each row in the table.						
	An Aggregate function also known as Multiple row function works on a group of rows and returns only 1 output.						
	(1 Mark for the writing any 1 valid Single row and Aggregate function) (1 Mark for writing the difference in their working)						
	II. Aggregate functions ignore NULL values. The first query counts the Not Null values in the column ENAME hence the output is 5.						
	But the second query counts all the records present in the table EMP which gives the output as 8.						
	Hence this implies that there are 8 rows in the table and the Ename column contains the name of only 5 employees. 8-5 = 3, i.e. 3 names have been left blank. This means that there are 3 null values in the column ENAME.						
	(1 Mark for giving individual explanation of the queries)						

		(2 Marks for giving individual explanation of the queries along with the reason for difference in the output)	
		(½ Mark for identifying the error)	
	(c)	Geetanjali had created a table "Customer" in the database "Test". Immediately after the successful creation of the database, she wrote the Rollback command to undo the creation of the table. Did she execute rollback successfully? Explain.	2
	Ans:	A table in MYSQL is created using CREATE TABLE command which is a DDL command. A DDL command cannot be rolled back hence she needs to use the DROP TABLE command to remove the table.	
		(2 Marks for the correct answer)	
		(½ mark only for the identification of CREATE TABLE as a DDL command)	
		(1/2 Mark only for suggesting the use of DROP TABLE command)	
4	(a)	Ms. Meena is not able to understand the statement "Java is a case sensitive language". Help her in understanding the above mentioned statement by giving suitable example.	1
	Ans	Java is a case sensitive language as java distinguish between uppercase and lowercase very strictly. For example:	
		int num1, Num1;	
		Although both variable have same name in the above statement but java will treat them two different variables due to first character in different case.	
		(1 Mark for correct answer)	
	(b)	Ms. Rachel is designing a frame in Netbeans in which she has used four Radio Button controls. She want that only one radio button out of four should be selected at a time. Which property of the Radio Button should be selected to acheive the same?	1
	Ans	buttonGroup	
		(1 Mark for correct answer)	
	(c)	What will be displayed in jTextArea1 after the following code is executed:	1
		int i; for(i=10;i<50;i=i+30)	
		{	
		jTextArea1.append(""+i); }	
		jTextArea1.append("\n"+i);	
	Ans	25	

	55	
	(½ Mark for each correct output)	
(d)	Do as directed:	4
	I. Find the output of the following Java code snippet after execution of each java statement labelled as Stmt 1, Stmt 2, Stmt 3, Stmt 4:	
	String str1="VASUDHAIVA",str2="KUTUMBAKAM"; jTextArea1.append((str1.substring(0,4))); //Stmt 1 jTextArea1.append((str2.substring(4))); //Stmt 2 jTextArea1.setText(jTextArea1.getText()+jTextArea1.getText().length());//Stmt 3 jOptionPane1.showMessageDialog(null,jTextArea1.getText().length()); //Stmt 4	
	II. Rewrite the following code using do while loop: int num=Integer.parseInt(jTextField1.getText()); while(num<=40)	
	jOptionPane1.showMessageDialog(null,num); num=num*20; }	
Ans	jOptionPane1.showMessageDialog(null,"Bye Bye"); I.	
	VASU VASUMBAKAM VASUMBAKAM10 12	
	(½ Mark for each correct output)	
	<pre>II. int num=Integer.parseInt(jTextField1.getText()); do </pre>	
	jOptionPane1.showMessageDialog(null,num); num=num*20; } while(num<=40); jOptionPane1.showMessageDialog(null,"Bye Bye");	
	(2 Mark for correct code in do while)	
(e)	(2 Mark for correct code in do while) The following code has error(s). Rewrite the correct code underlining all the corrections made: value1=1, value2=2; while(value1 <value2) ("\n"+value1*value2;<="" jtextarea1.append="" td=""><td>2</td></value2)>	2
	value1++	

	}
Ans	<pre>int_value1=1, value2=2;</pre>
(f)	Mr. Ashish works as a programmer in "Universal Technologies Pvt. Ltd.". He has designed a Library software to generate the member ship fee depending upon the membership type considering discount eligibility as well. A screenshot of the same is shown below:
	Read More, Learn More Read More, Learn More Reader 's Paradise Library Member Name Syueon Lee Age 17 Membership Type
	Help him in writing the code to do the following: i. After selecting appropriate Radio Button, when 'Check Fee' button is clicked, fee should be displayed in the respective text field according to the following criteria:
	Membership Type Fee
	Monthly 500
	Quarterly 1000

	Yearly	1500						
	ii. After selecting appropriate Radio Button, when 'Check Discount' button is clicked, appropriate discount should be displayed in the respective text field according to the following criteria:							
	Discount Eligibility	Discount						
	Students 200							
	Other	100						
	displayed in the respective	·	Net Fee should be calculated and the given formula:					
			he text fields should be cleared.					
Ans	i. Code for 'Check Fee' bu if (jRadioButton1.isSelecte jTextField3.setText(": else if (jRadioButton2.isSe jTextField3.setText(": else if (jRadioButton3.isSe jTextField3.setText(": (2 Mark for correct code) ii. Code for 'Check Discou if(jRadioButton4.isSelecte jTextField4.setText("200") else if(jRadioButton5.isSel jTextField4.setText("100") (2 Mark for correct code) iii. Code for 'Calculate' bu int fee=Integer.parseInt(jTe int disc=Integer.parseInt(jTe int disc=Integer.parseInt(jTe int net=fee-disc; jTextField5.setText(""+net (1 Mark for correct code) iv. Code for 'Clear All' but	ed()) 500"); elected()) 1000"); elected()) 1500"); ent' button d()) elected()) etton extField3.getTex fextField4.getTex						

5	(a) Ans: (b) Ans:	SELECT POW(INSTR('My_Database','_'),2); as: Output: 9 (Imark for the correct output) Is NULL and 0(zero) same?Jusify your answer.							
	(c)	(1 mark for the			ving questions	2			
			Name Rajesh Kumar Hemant Kumar Naveen Sharma Sourabh Verma Nishant Kumar Hemant Kumar	Phoneno 9599123456 9812345678 7868654235 8933217645 NULL 9811110891 nave a Primary Ke	Address WZ11 – Rajouri Garden, Delhi Modern Apartments, Pitampura, Delhi CA 22, Sector 21 Rohini,Delhi JD 61, Sector20,Gurgaon Modern Apartments, Pitampura, Delhi F40, Sector 19, Rohini, Delhi				
	Ans:	answer.	e column that might l						
	Alls.	values. 2. Phoneno and a Un	 PanNo must be a Primary Key as it contains unique and NOT NULL values. Phoneno must have a Unique constraint as it contains non repeating values and a Unique constraint allows NULL values. (1 Mark each for correct identification of the column and the correct reason.) 						

		-	correct identific	cation of	the columns	s)	
(d)	Consider	the foll	owing table:	Table: Ph	armaDB		4
	RxID	Drug ID	DrugName	Price	Pharmacy Name	PharmacyLocation	
	R1000	5476	Amlodipine	100.00	Rx Pharmacy	Pitampura, Delhi	
	R1001	2345	Paracetamol	15.00	Raj Medicos	Bahadurgarh, Haryana	
	R1002	1236	Nebistar	60.00	MyChemi st	Rajouri Garden, Delhi	
	R1003	6512	VitaPlus	150.00	MyChemi st	Gurgaon,Haryana	
	R1004	5631	Levocitrezine	110.00	RxPharma cy	South Extension,Delhi	
	i. T ii. T iii. T	o increa o displa o displ "Gur o displ	ay the Maximun gaon"	Amlodip cines when price of DrugNan	ose price is in fered by phane and Pharm	n the range 100 to 150. The range 100 to 150.	
Ans:	(½ Mark (½ Mark	"Aml	PharmaDB set prodipine"; rrect usage of uprect condition from PharmaDB	pdate)			
	ii. Select * from PharmaDB where price between 100 and 150; (½ Mark for correct use of Select) (½ Mark for correct condition)						
	iii. Select Max(Price) from PharmaDB where PharmacyLocation like"%Gurgaon%";						
	(½ Mark for correct Select statement) (½ Mark for correct condition)						
	iv. Select Drug ID, DrugName,PharmacyName from PharmaDB order by Price desc;						
	(½ Mark	for ore	•				
(e)	On the ba	asis of t	he Table Pharma	a ,write th	ne output(s) p	roduced by executing the	2

		following queries: i. SELECT RxID, DrugName, Price from PharmaDB where PharmacyName IN ("Rx Parmacy", "Raj Medicos"); ii. SELECT PharmacyName, COUNT(*) FROM PharmaDB GROUP BY PHARMACY NAME						
	Ans	i. RxID DrugName Price R1000 Amlodipine 100.00 R1001 Paracetamol 15.00 R1004 Levocitrezine 110.00 (1 mark for the correct output) ii. Pharmacy Name COUNT(*) Rx Pharmacy 2 Raj Medicos 1 My Chemist 2						
6	(a)	Table: Job Field name Datatype Size Constraint J_Code Integer 3 Primary Key J_Description Varchar 25 Not Null					2	
	Ans:	J_Chg_Hr						
	(b)	Consider the tables given below which are linked with each other and maintains referential integrity: Table: SAP						
		SAPID ItemCode ItemName ItemStorage Location						

	S1001		1001	Receiver	W12-B3-R24		
	S1002		1002	Transponder	W13-B7-R87		
	S1003		1003	Battery Bank	W21-B1-R87		
	S1004		1004	Inverter	W21-B11-R2		
	S1005		1005	Genset	W22-B15-R16		
	Table : Store						
	StoreID		Item Code	StoreLocation	ReceivedDate		
	1201		1001	Hauz Khas	2016/05/20		
	1202		1002	Rajouri Garden	2016/06/14		
	1203		1003	Rohini	2016/05/06		
	1204		1004	Hauz Khaas	2016/07/15		
	1205		1005	Rajendra Place	2016/05/27		
i.	and output for	r (iii) be	low:	n tables, write commands me and ReceivedDate of a			
Ans:					in the items.		
Alls.	Select SAP.ItemCode,ItemName, ReceivedDate From SAP sa,Store st						
	Where sa.Ite	,		Δ			
	(½ Mark for		From states				
-::	(1 Mark for t	he corre	ect condition	n)	a itama whos		
ii.	(1 Mark for to display SA	<i>he corre</i> APID,Ite	ect condition emName,Ite	n) mStorageLocation of all the	ne items whose		
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	(1 Mark for the To display SA Received date Select sa.SAF From SAP sa Where sa.Ite:	he correct APID, Item PID, Item PID, Item a, Store s mCode=	ext condition emName,Item 2 2nd May 20 enName,Item t est.ItemCode usage of Se From state	mStorageLocation of all to 16. StorageLocation e and Receiveddate >"201 elect) ment)			
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		(1 Mark fo	r each row)					
	(c)	What will be the degree and cardinality of the cartesian product formed while						
		combining both the above given tables 'SAP' and 'Store'?						
	Ans:	Degree: 8						
		Cardinality: 25						
		(1/2 mark for each correct answer)						
	(d)	(½ mark for each correct answer) Sangeeta is not able to add a new record in the table 'Store' through the following						
	(4)	query:						
			nto store values (1206,1006,'Karol Bagh', '2016/07/25');					
		Identify the error if there is any.						
	Ans:	As referential integrity is being maintained in between both the tables, ItemCode						
		1006 cannot be inserted in the table store as there is no corresponding matching						
		entry in the	table SAP.					
		(134 16						
7	(a)		or correct error finding)	lantify the estacourith later as a first	1			
/	(a)		e given domains carefully and 10 e/e-Business/e-Learning:	lentify the category it belongs out of e-	- 1			
			[AZON: www.amazon.in					
			O(Prime Minister's office): www	w nmo gov in				
	Ans:		Business					
	1 11151		overnance					
		(½ Mark e	ach for correct answer)					
	(b)	Mention any one social and economic benefit of ICT.						
	Ans:	Social Benefit:						
				to stay in touch with their near and				
			dear ones.					
		Economic Benefit:						
		i. It helps economy grow at faster rate as it provides transparency in the						
		process and increases accountability.						
		(1 Mark each for correct Social and Economic Benefit)						
	(c)	Ms. Rachna, works as a programmer in 'Plan My Trip' travel company. Sh						
		wishes to design a Flight booking page. Help her in choosing appropriate controls						
		for the specified task from Text field, Label, Radio button, Check box, List box,						
		Combo box, Button and write in the third column.						
		S. No.	Control used to	Control				
		1	Traveler's Name					
		2	Source City/Destination City					
		3	Trip Type (One Way Trip / Round Trip / Multi City or Stop Over)					

	4	Booking Class (Economy/Premium Economy/Business)				
Ans						
	S. No.	Control used to	Control			
	1	Traveler's Name	Text Field			
	2	Source City/Destination City	Combo box			
	3	Trip Type (One Way Trip / Round Trip / Multi City or Stop Over)	Radio button			
	4	Booking Class (Economy/Premium Economy/Business)	Combo box/ Radio button			
	(1/2 mark for each correct answer)					