Sample Question Paper

Subject:<u>Informatics Practices</u>

Class: XII

Session 2016-17

Ti	me: 3 H	rs. M.M. – 7	0
	T		
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	
	(1.)	(½ Mark for correct answer)	1
	(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.	
	(0)	(1 Mark for correct difference) Which of the following activity can be termed as Favordropping:	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.	
	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?	
Ans	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
Ans	 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	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

¡TextField2.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. In absence of break 'fall through' condition occurs. As a result control will not Ans 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) Realizing the importance of the Internet, Ms. Shikha a Mathematics teacher, has (c) decided to use Internet as a medium to teach her students Mathematics in an interesting way. 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 **Images** 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

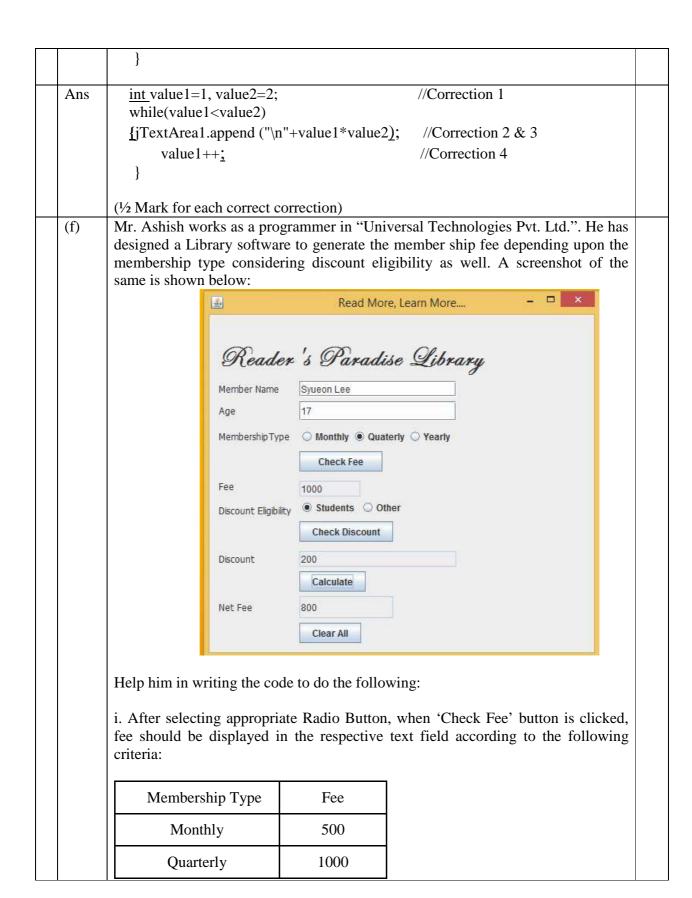
	Shapes						
	Images						
	//tr>						
	Circle						
	 <	:/td>					
	Square						
	<pre>source="square.jpg"></pre>						
	//tr>						
	3						
	II Halp har in matching Column	A with suitable statements of Colu	mn 'R'				
	II. Help her in matching Column 2	A with suitable statements of Colu	IIIII D				
	Column A	Column B	7				
	XML		-				
	AWIL	We use predefined tags to design					
	Tr. 1 1 1 1 1	webpages.					
	It is designed to store and	HTML					
	transport data	VD 67	_				
	Tags are not case sensitive	XML	_				
	HTML	Elements must have a closing					
		tag.					
Ans							
	<html></html>						
	<head><title>Shapes</title><td>ead></td><td></td></head>	ead>					
	<body></body>						
		//Corre	ction 1				
	Mathematics in a	<u>i fun way</u> //Corr	ection 2 & 3				
		-					
	Shapes						
	Images						
	Circle						
		> //Correc	etion 4				
	<pre></pre> <pre><</pre>	// Conc.					
l I	Square						

			//Correction 4			
			,, 2 3333 1333			
		1333333				
		(½ Mark for each correct correction)				
		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				
			webpages.			
		(½ Mark for each correct matching)				
	()		1 . 1			
3	(a)	In today's digitized world with a need to st	· · · · · · · · · · · · · · · · · · ·	4		
		important to store the data in the databases.	. SQL is used to interact with the			
		Database Management System.				
		I Classify the following commands exceed	ing to their type (DDI /DMI)			
		I. Classify the following commands accord i. INSERT INTO ii. Al	LTER TABLE			
		II. Which clause would you use with Select				
			an any value in a list of specified values.			
		ii. Used to display unrepeated values of III. Chhavi has created a table named Orde				
		value of a column named salesamount by 2				
		for the same.	co. She has written the following query			
		Alter table Orders Add salesa	amount —salesamount⊥20·			
		Titel table Orders rad salest	amount –saicsamount 120,			
		Is it the correct query? Justify.				
	Ans:	I.				
		i. INSERT INTO : DML command				
		ii. ALTER TABLE: DDL command				
		(1/2 Mark for each correct arguer)				
		(½ Mark for each correct answer) II.				
		a. IN				
		b. Distinct				
		o. 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.	
THIS.	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)				
(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. 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 suggesting the use of DROP TABLE command) 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. 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? Ans buttonGroup (1 Mark for correct answer) (c) What will be displayed in jTextAreal after the following code is executed: int i; for(i=10;i<50;i=i+30) { i=i+15; jTextArea1.append(""+i); } jTextArea1.append(""+i); }				
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i=i+15; jTextArea1.append(""+i); } jTextArea1.append("\n"+i);				
} jTextArea1.append("\n"+i);				
			jTextArea1.append(""+i);	
			jTextArea1.append("\n"+i);	
		Ans		

	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; }	
	jOptionPane1.showMessageDialog(null,"Bye Bye");	
Ans	I. VASU VASUMBAKAM VASUMBAKAM10 12	
	(½ Mark for each correct output)	
	II. int num=Integer.parseInt(jTextField1.getText()); do {	
	jOptionPane1.showMessageDialog(null,num); num=num*20; } while(num<=40);	
	jOptionPane1.showMessageDialog(null,"Bye Bye");	
(e)	(2 Mark for correct code in do while) The following code has error(s). Rewrite the correct code underlining all the	2
(6)	corrections made : value1=1, value2=2; while(value1 <value2)< td=""><td>2</td></value2)<>	2
	jTextArea1.append ("\n"+value1*value2; value1++	



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						
iii. When 'Calculate' bu displayed in the respective		Net Fee should be calculated and the given formula:					
	Fee – Discount n is clicked, All t	he text fields should be cleared.					
if (jRadioButton1.isSelected jTextField3.setText(" else if (jRadioButton2.isSed jTextField3.setText(" else if (jRadioButton3.isSed jTextField3.setText(" (2 Mark for correct code) ii. Code for 'Check Discoutif(jRadioButton4.isSelected jTextField4.setText("200") else if(jRadioButton5.isSedected)	500"); elected()) 1000"); elected()) 1500"); ant' button d()));						
jTextField4.setText("100") (2 Mark for correct code)	V /						
<pre>iii. Code for 'Calculate' button int fee=Integer.parseInt(jTextField3.getText()); int disc=Integer.parseInt(jTextField4.getText()); int net=fee-disc; jTextField5.setText(""+net);</pre>							
(1 Mark for correct code)							
iv. Code for 'Clear All' bu							

		jTextField1.setT	, , ,						
		jTextField2.setT	* , , .						
		jTextField3.setT	, , ,						
		jTextField4.setT	* , , .						
		jTextField5.setT	'ext("");						
		(1 Mark for correct code)							
5	(a)	Write the output of the following SQL queries: SELECT POW(INSTR('My_Database','_'),2);							
	Ans:	Output:							
		9							
		(Imark for the c	correct output)						
	(b)	(Imark for the correct output) Is NULL and 0(zero) same? Jusify your answer.							
	Ans:				ailable, unassigned or				
	1 11151		ro is a defined value.		uniwere, uniweengmen er				
		(1 mark for the	correct answer)						
	(c)	Observe the give	en table carefully and	answer the follow	ving questions:	2			
		PanNo	Name	Phoneno	Address				
		CIZPW123A		9599123456					
		CIZP W 125A	Rajesh Kumar	9399123430	WZ11 – Rajouri Garden, Delhi				
		ABWQ2341B	Hemant Kumar	9812345678	Modern				
		AD W Q2541D	Tiemant Kumar	7012343070	Apartments,				
					Pitampura, Delhi				
		DERA9786T	Naveen Sharma	7868654235	CA 22, Sector 21				
					Rohini,Delhi				
		PARD3457L	Sourabh Verma	8933217645	JD 61,				
					Sector20,Gurgaon				
		GDTF8762P	Nishant Kumar	NULL	Modern				
					Apartments,				
					Pitampura, Delhi				
		MERT2376G	Hemant Kumar	9811110891	F40, Sector 19,				
					Rohini, Delhi				
		i. Name the	e column that might l	nave a Primary Ke	ey constraint. Justify your				
		answer.	S	·	- • • •				
			straint. Justify your						
	Ans:	answer. 1. PanNo m	nust be a Primary Key	v as it contains un	ique and NOT NULL				
		values.		,	1				
			must have a Unique	constraint as it co	ntains non repeating values	S			
			ique constraint allow						
		(1 M 1 C	m a amma at 21 am 10° a 11°	on of 41 1					
	(1 Mark each for correct identification of the column and the correct reason.)								

		(1 Mark	for the	correct identific	cation of	the columns	<u>s)</u>		
	(d)	Consider the following table:						4	
		Table: PharmaDB							
		RxID	Drug	DrugName	Price	Pharmacy	PharmacyLocation		
			ID	-		Name			
		R1000	5476	Amlodipine	100.00	Rx	Pitampura, Delhi		
		R1001	2345	Paracetamol	15.00	Pharmacy Raj	Bahadurgarh,		
		Kiooi	2545	Taracciamor	13.00	Medicos	Haryana		
		R1002	1236	Nebistar	60.00	MyChemi	Rajouri Garden,		
		D1002			1.50.00	st	Delhi		
		R1003	6512	VitaPlus	150.00	MyChemi	Gurgaon, Haryana		
		R1004	5631	Levocitrezine	110.00	st RxPharma	South		
			3031	Levellezine	110.00	cy	Extension, Delhi		
	Ans:	 i. To increase the price of "Amlodipine" by 50. ii. To display all those medicines whose price is in the range 100 to 150. iii. To display the Maximum price offered by pharmacy located in "Gurgaon" iv. To display the Drug ID, DrugName and Pharmacy Name of all the records in descending order of their price. i. Update PharmaDB set price = price+50 where DrugName = "Amlodipine"; (½ Mark for correct usage of update) (½ Mark for correct condition) 							
				from PharmaDB	-	rice 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	

		IN ("Rx ii. SELECT Ph	ID, DrugName, Prico Parmacy", "Raj Med armacyName, COUN ACY NAME	icos");		here PharmacyName	
	Ans	i. RxID DrugName Price R1000 Amlodipine 100.00 R1001 Paracetamol 15.00 R1004 Levocitrezine 110.00 (1 mark for the correct output)					
6	(a)	(1 mark for the corn Write SOL query to	rect output) o create a table "Job"	with th	e following s	tructure:	2
		Field name J_Code J_Description J_Chg_Hr J_Lastupdate	Table Datatype Integer Varchar Integer Date	e: Job Size 3 25	Constraint Primary Ke Not Null	y —	
	Ans:	Create table Job (J_Code Integer(3) Primary Key, J_Description Varchar(25) Not Null, J_Chg_Hr Integer, J_Lastupdate Date); (½ Mark for create table statement) (½ Mark for all the fieldnames with datatypes) (½ Mark for correct placement of Primary key constraint) (½ Mark for correct placement of Not null constraint)					
	(b)	Consider the tables referential integrity:	given below which a	re linke	ed with each o	other and maintains	6
		SAPID	ItemCode	ItemN	ame	ItemStorage Location	

	C1001	1001	Danima	W12 D2 D24		
	S1001 S1002	1001	Receiver	W12-B3-R24		
			Transponder Portage Ports	W13-B7-R87		
	S1003 S1004	1003	Battery Bank Inverter	W21-B1-R87 W21-B11-R2		
				W21-B11-R2 W22-B15-R16		
	S1005	1005	Genset	W22-B13-K10		
	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		
	_	·				
	XXII C	1 1	1 '. 1 '			
			oles, write commands in	n SQL for (1) and (11)		
:	and output for	` /	and DaggingdData of al	1 the items		
i.			and ReceivedDate of al	n me nems.		
Ans:	From SAP sa,	mCode,ItemName , Re Store st	cciveuDate			
	,	Code=st.ItemCode				
	(½ Mark for c	orrect usage of Select orrect From statemen e correct condition)	•			
ii.			orageLocation of all th	e items whose		
		is after 2 nd May 2016.				
Ans:	Select sa.SAPID,ItemName,ItemStorageLocation					
	From SAP sa,Store st					
	Where sa.ItemCode=st.ItemCode and Receiveddate >"2016/05/02";					
	(½ Mark for correct usage of Select)					
	(½ Mark for correct From statement)					
	(½ Mark for the correct join condition) (½ Mark for the correct condition on Receiveddate) SELECT to SARID ItemName STOREID, EROM SAR to Store at WHERE					
iii.						
111.	SELECT sa.SAPID,ItemName,STOREID FROM SAP sa,Store st WHERE sa.ItemCode=st.ItemCode AND StoreLocation = "Hauz Khas"					
Ans:	SAPID Iten		CLOCATION - HAUZ KII	uo .		
1 1113.	me	nia Storeid				
		eiver 1201				
		1201				
	C1004 T	1204				
	S1004 Inve	erter 1204				

		(1 Mark fo	r each row)				
	(c) What will be the degree and cardinality of the cartesian product formed whi						
		combining both the above given tables 'SAP' and 'Store'?					
	Ans:	Degree: 8					
		Cardinality: 25					
		(½ mark for each correct answer)					
	(d)	Sangeeta is not able to add a new record in the table 'Store' through the following					
		query: Insert into 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.					
7	(a)	(1 Mark for correct error finding) Observe the given demains correctly and identify the cotogory it belongs out of a					
<i>'</i>	(a)	Observe the given domains carefully and identify the category it belongs out of e-Governance/e-Business/e-Learning:					
		i. AMAZON: www.amazon.in					
		ii. PMO(Prime Minister's office): www.pmo.gov.in					
	Ans:	i. e- Business					
			Sovernance				
		(½ Mark e	ach for correct answer)				
	(b)	Mention ar	ny one social and economic bene	fit of ICT.	2		
	Ans:	Social Benefit :					
		i. Social networking sites help people to stay in touch with their near and					
			dear ones.				
		Economic					
		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. She					
	(-)	wishes to design a Flight booking page. Help her in choosing appropriate cont					
		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 /				
	ı	I I	Round Trip / Multi City or				
			Stop Over)				

	4	Booking Class (Economy/Premium Economy/Business)				
Ans	IS					
	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)					