Sample Question Paper

Subject: Informatics Practices

Class: XII

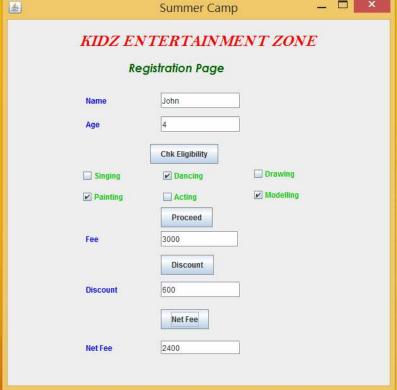
Session 2017-18

Ti	me: 3 H	rs. M.M. 7	70
1	(a)	Mr. Ravi, an IT Help Desk executive needs to remotely login a customer's PC to	1
		provide him technical support. Suggest a remote access software to him.	
	(b)	Identify the type of network (out of LAN/PAN/MAN/WAN) formed in the given diagram:	1
			1
	(c)	Identify the fastest wired media out of the following:	1
		Ethernet cable, Optical fiber, Co-axial cable	
	(d)	Mention any two main advantages of star topology over bus topology.	1
	(e)	Discuss the significance of Bluetooth technology.	2
	(f)	 I. Write down any two advantages of Open Source Software over Proprietary software. II. Ms. Sita trying to log into your Internet Banking account for online transaction activity. However, as strange as it may seem, she is denied of an access to the bank's website, in spite of having a swift internet connection. 	4
		What do you think the reason behind this problem is and suggest her few simple precautions in order to overcome any such type of network security threats.	
2	(a)	I. Help Manish in identifying the incorrect variable name with justification from the following:i. unit@price; ii. fee; iii. userid; iv. avg marks;	4
		II. Write Java code to declare a variable named Price of integer type. Assign a value 10 to this variable. Overwrite the value of price with its double value. Decrease the value of price by 5.	
	(b)	Rewrite the following code using switch case: int day=Integer.parseInt(jTextField1.getText());	2

_		· C/ 1	. 1 0 0 1	7 \				1
		` •	/>=1 && day<=	*	(.1 · UXX7 1 ·	D "\		
				vMessageDialog	g(this, "Worki	ng Day");		
			f(day > = 6 && d	•	(11: 110.00.7)	"		
			ptionPane1.shov	vMessageDialog	g(this, "Off Da	ıy");		
		else						
				vMessageDialog				_
	(c)		_		-		ML code which	4
							inactive during	
				solution along	-			
				t from XML? M				
3	(a)	Mention a	ny two example	of common Dat	tabase Manago	ement Sys	tem.	1
	(b)		full forms of the	_				1
		i. D		ii. DML				
	(c)			•			QL. Help her in	
				difference betw	een Alter an	d Update	command with	
		suitable ex	-					
				command for the		-		
			- •	of the database a	already existir	ng in MyS	QL.	
			use the databas	•				
			•	existing databas				
		iv. To	remove all the	records of the ta	able named "C	Club" at or	ne go along with	
			its structure per					
	(d)	Observe the	he given table	named "Loan"	carefully and	predict th	ne output of the	4
		following	queries:					
				Loan				
		File_No	Cust_Name	PhoneNo	Loan_Amt	Bank	Cheque_Dt	
		619095	Ms. Roshni	9899965430	809876	HBDC	2017-06-15	
						Ltd.		
		234252	Mr. Rajesh	8654327890	745738	ICUCI	2017-07-22	
			3			Ltd.		
		543613	Mrs. Sapna	8883546354	NULL	NBI	2017-07-24	
						Ltd.S		
		435467	Mr. Navneet	9764747474	647484	ICUCI	2017-08-13	
						Ltd.	2017 00 10	
		263427	Ms. Puja	8746454742	546373	HBDC	2017-08-30	
			1,15. 1 aja	0710121712	2 102 72	Ltd.	2017 00 20	
		i. sel	ect count(file_n	o)-count(loan_a	mt) from loan		1	
				Loan_Amt from			nue dt)=7:	
							"ID" from loan	
		111. 512	where Bank='I		5(-abi_name	,_,, 110	TOM TOWN	
		iv sel			0/100) As "T)iscounted	Payment" from	
		17. 501	,	n_amt>700000;	10/100 <i>) H</i> 3 L	,1500 antou	Taymont mom	
4	(a)	Write dow		of the following	T.			1
-	(4)	i. UR		IDE	••			1
		1. UI	11, 1					

(b)	Which property is to be used during design time to add a number of countries in the list box?	1
(c)	What will be the final value of variable x after the following code is executed:	1
	int x=10;	
	while(x>1)	
	$\begin{cases} x=x/3; \end{cases}$	
	++x;	
	}	
(d)	i. Find the output of the following Java code snippet after execution of each java statement labelled as Line 1, Line 2, Line 3, Line 4:	4
	String userid="INDIA",pwd="";	
	pwd=userid.substring(0,2); //Line 1	
	int l=userid.length(); //Line 2	
	pwd=pwd.toLowerCase(); //Line 3 pwd=pwd.concat(""+1); //Line 4	
	pwd-pwd.concat(+1), //Line 4	
	ii. Rewrite the following code using for loop:	
	int attempt=0;	
	while(attempt<=3)	
	String login=jTextField1.getText();	
	String pwd=jTextField2.getText();	
	if(login.equals("XII") && pwd.equals("IP"))	
	jOptionPane1.showMessageDialog(null, "Welcome");	
	break;	
	else jOptionPane1.showMessageDialog(null, "Pl try again");	
	attempt++;	
	}	
(e)		2
	corrections made : int start=2;end=20;	
	do;	
	{	
	start=start+start;	
	while(start<=end)	

Ms. Neelam works as a programmer in "Kidz Entertainment Zone". She has designed a Registration Page to calculate the total fee of summer camp depending upon the number of activities selected by the user considering age eligibility as well. A screenshot of the same is shown below:



Help her in writing the code to do the following:

i. After entering the age in the specified text field, when 'Chk Eligibility' button is clicked, a dialogue box should be displayed with a message "Welcome" if age is in between 3-13 years else there should be a message "Sorry! You are either underage or overage!!". Additionally the application should be closed if age is inappropriate.





- ii. After selecting the desirable activities, total fee should be displayed in the specified text field on the click of "Proceed" button at the rate of Rs. 1000 per activity.
- iii. A discount of 20% is applicable if more than one activity is chosen by the user.

			_	the "Net Fee ctive text field			ld be calculated and	
				Fee = Fee - Dis				
5	(a)	type he s	hould chose a	for the column	"EName" ou	it of char and	fused as which data d varchar. Help him valid justification	2
	(b)		lini has just Department, S		ole named "	'Employee''	containing columns	2
		column i	in the table.		riting SQL	command to	to add a primary key add a primary key table.	
	(c)	Consider	the followin	g table:				4
					<u>Student</u>			
			T	Ta		T .	٦	
		Admn	Name	Stream	Optional	Average		
		1001	Shrishti	Science	CS	90		
		1002	Ashi	Humanities	Maths	80		
		1003	Aditya	Commerce	IP IP	60		
		1004	Ritu Raj	Science	IP	65		
		1005	Sonali	Commerce	Maths	60		
		1006	Saumya	Science	IP IP	65		
		1007	Ashutosh	Science	IP D. E.D.	95		
		1008	Prashant	Commerce	P.ED	80		
		1009	Aman	Commerce	IP DED	70		
		1010	Rishabh	Humanities	P.ED	85		
		i. T ii. T iii. T	o display the subject. To display na starts with o give an inc section who display a n	me, stream and 'A'. rease of 3 in the have Maths a	ose students optional of e average of as their optio	all those stud all those studinal subject.	P as their optional dents whose name dents of humanities average more than	
	(4)	On the 1	75.	blo Ctudont	rita tha anter	nt(a) mma desa -	d by oxecuting the	
	(d)	following i. S	g queries: elect max(av stream like		erage) from s	students grou	ed by executing the up by stream having P');	2
6	(a)			create a table "I	Registration"	with the fol	lowing structure:	2
			<u>, </u>	Table	e: Registratio			
		Field na	ime	Datatype	Size	Constraint		

		Reg_Id	Integer	2	Primary Ke	v	
		Name	Varchar	20	1 milary 120)	
		Course	Varchar	10			
		Join_Dt	Date	10			
	(b)		given below while at	temptin	g the following	ng questions:	
	(-)			ain	6	-8 1	
		TrainId	TName	Source	e	Destination	
		3402	Century Express	New I	Delhi	Mumbai	
		4023	Superfast Express	Kanya	ıkumari	Chandigarh	
		3424	Lucknow Mail	Luckn	ow	New Delhi	
		6542	Capital Express	Chenn	nai	Kolkata	
		9876	Punjab Mail	Patna		Ludhiana	
		5400	Century Express	New I	Delhi	Kanpur	
				vation			
		RefNo	TrainId	Passer	~	JourneyDate	
		S001	4023		am Singh	2017-07-02	
		C001	6542		Mittal	2017-06-25	
		S002	4023	Jessic		2017-07-02	
		P001	9876		jeet Singh	2017-07-22	
		S003	4023		ot Singh	2017-07-03	
		C002	6542		Mukharjee	2017-06-25	
		P002	9876	Meera		2017-07-22	
		L001	3424	Ruby		2017-06-29	
	(*)	C003	5400	Tapsh		2017-07-04	
	(i)	Identify the primary				Innov	1
	(ii)	Help Mr. Sajal in ide	entifying the wrong s	stateme	nt with refere	nce to UNION	1
		clause:	T statement within U	INIONI	mayat baya th	a sama numbar af	
		a. Each SELEC columns	i statement within t	JINION	must have th	le same number of	
			must also have simi	lar data	types		
			in each SELECT sta		• -	in the same order	
			ne UNION operator s				
	(c)	With reference to the					6
	(-)	and output for (iii) b	_			(-)	
		-	e Train name along	with its	passenger na	me.	
			rain detail which has				
			from Train T, Reser		•	ainId=R.TrainId	
		AND Sou	urce LIKE "%Delhi"	OR De	estination LIK	XE "%Delhi";	
7	(a)	Write down any two					1
	(b)	I = -			ll himself in a	an e-Learning course.	2
		Mention him any tw					
	(c)	· ·				mpany named 'Total	2
			_	_		gistration page. Help	
		her in choosing th	ne most appropriate	contr	ols for the	specified task from	

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Textfield, Label, RadioButton, CheckBox, ListBox, ComboBox, Button and write in the third column considering the following points:

- Customer can enter his/her name in the control.
- Customer can choose only one city out of given list of city.
- Customer can choose only one type out of given policy types.
- Customer can choose any number of INCLUSIONS out of given inclusions.

S. No.	Control used to	Control
1	CUSTOMER'S NAME	
2	CUSTOMER'S CITY	
3	POLICY TYPE (Individual/Family)	
4	INCLUSIONS (Critical Illness/Accidental Coverage/Health Checkup/Others)	