Class XII Informatics Practices - OLD (265) Sample Question Paper 2019-20

Time allowed: 3 Hours

Max. Marks: 70

General Instructions:

All questions are compulsory, however question number 2, 4 and 6 have internal choices.

Section-A	
(a) Which of the following are open standards?.OGG.DOC.BMP.ODF	1
(b) Ms. Ivana, a leading marketing professional working in a multinational company, is most of the time on move to cater her profession demands. Although she carries her laptop with her all the time but many a times she require to take some data from her office PC. She has to make several requesting phone calls to her colleague Ms. Barbara to send her required documents from her office PC. Suggest her any one popular software name so that she can herself remotely access her office PC anytime from anywhere.	
Client Software Windowson	
(c) Write the URL of any one e-Governance website.	1
(d) International Tour and Travels company has set up its new branch office in Jaipur where different buildings are spanned over in the radius of 900 meter in Jaipur. Name the network formed in the following situations :	1
(i) The branch office is connected with the regional office in New Delhi.	
(ii) All the buildings of branch office are connected to each other.	
(e) Deepti is confused between the terms ASCII and Unicode. Help her by differentiating between ASCII and Unicode.	2
(f) Many of the programming brains has shifted their focus from Proprietary software to Free and Open software. Mention any two freedom offered by Free software. Going with the flow, Sandhya has downloaded a software from the internet which can be freely distributed and used by anyone but the source code is not available. Is it Freeware or free software? Justify your answer as well. Similarly Premjith wants to install a software on his system that can help him to create, edit and save office documents but he does not want to purchase the software. Suggest him a good software for the same.	

(a) Ruby, a class XI student has just started learnin following:	g java programming. Help her in the					
i. Explain her the concept of variable and data type	by suitable example.					
ii. Help her in understanding the difference betwee						
comparison operator with the help of appropriate e						
	Autipie.					
(b) Will the output from the following two code be an	y different?					
First Code:						
int x=2,y=40;						
while(y<=x) {						
jTextField1.setText(""+x);						
x=x+8;						
}						
Second Code :						
do {						
jTextField1.setText(""+x); x=x+8;						
x=x+o, } while(y<=x);						
$\int \text{while}(y < -x),$						
Give reasons for your answer.						
OR						
(b) Predict the output of the following code:						
int n=4,f=0,i;						
$for(i=1;i \le n;i++)$						
{						
f=f*i;						
}						
jTextField1.setText(""+f);						
jTextField2.setText(""+i);						
(c) Dev, a website designer with "Creative Designers"	•					
code. Observe the code given below and answer th	e following questions:					
<company></company>						
<employee eid="1"></employee>						
<name>Albert</name>						
<dept deptid="d1">Computer</dept>						
<employee eid="2"></employee>						
<name>Manisha</name>						
<dept deptid="d2">Accounts</dept>						
i. Are these tags part of HTML code or XML code	de?					
ii. Identify the root element.						
iii. Mention any two child elements.						
-						
iv. Mention any two attributes						

(a) What is the p	(a) What is the purpose of SQL?								
(b) Mr. Manav, a database administrator in "Global Educational and Training Institute" has created following table named "Training" for the upcoming training schedule: Training									
 i. To co ii. To di iii. To di iii. To di its fe iv. To ac (c) Observe the following qu i. select cit ii. select co iii. select AV iv. select na 	Mr. Rajan Ms. Urvashi Ms. Neena Mr. Vinay Mr. Naveen writing SQL count how man isplay list of fr isplay all the e. dd a column fe table named ' eries: y from trainin unt(Training_Ia VG (Fee) from me from trainin	Email_Id raj@gmail.com urv@yahoo.com neenarediff.com NULL nav@gmail.com uery for the follow y female candidates	Topic Cyber Security ICT in Education Cyber Security ICT in Education Cyber Security ICT in Education Cyber Security ing purpose: swill be attended Security trade e data type. pove carefully ber Security'; ere email_id bic = 'Cyber S Email_Id, '@'	nding the trai ining is sche y and predict like '%gmai ecurity';)=0;	the output				
 (a) Shiva has placed two radio button on a payment form designed in NetBeans to accept mode of payment one out of cash or card. To his surprise, during runtime, a customer is able to select both the options for a single transaction. What went wrong? OR (a) Mention any one advantage of jCheckBox control over jRadioButton control. (b) Prachi is working with following swing controls: jButton, jLabel, jTextField, jCheckBox. Suggest her any two basic methods commonly available with all the four controls 									

Switch (application)
case 0 : jTextField1.setText("RDBMS");
case 1 : jTextField1.setText("BROWSER");
case 2 : jTextField1.setText("OS"); break;
case 3 : jTextField1.setText("PHOTO EDITOR"); break;
default : jTextField1.setText("Application Software"); break;
}
OR (c) Re-write the above given code through if-else statements.
(c) Re-write the above given code through n-cise statements.
(d) Anju, a beginner in java programming has written following code with some mistakes:
int k=0;
string s="Save Earth";
int l=s.length;
for(int i=0;k<1;i++)
jTextArea1.append(s+\n);
k++;
}; Usin her in identifying and correcting the errors
Help her in identifying and correcting the errors.
Convert the correct code into do while looping statement.
OR
(d) Observe the given code:
int ctr=10;
while(ctr>5)
wine(cu>5)
{
{ ctr=ctr-2;
{ ctr=ctr-2; }
{ ctr=ctr-2; } Attempt the following questions based on the above given code:
 { ctr=ctr-2; } Attempt the following questions based on the above given code: i. How many times the above given loop will run and what will be the value of ctr
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	NEW HO	ORIZON HOBBY CLUB
	Name	Krishna
	Hobby	Music - Check Fee
	Fee	2000
	Age Group	🔾 Sr. Group 🖲 Jr. Group
		Discount
	Discount	200.0
		Net Fee
	Net Fee	1800.0
		Exit
Hob Dane Drav Mus Sing Help	cing10wing15ic2ing25	hobbies are as follows: ee 500 500 500 500 500 ing the code to do the following:
Dane Drav Mus Sing	cing 10 wing 15 ic 2 jing 25 him in writi As per th respective "Check F If a cand in displayed Write sui	 be be bood <
Dand Drav Mus Sing Help i. ii. ii. ii. v. v.	cing 10 wing 15 ic 2 jing 25 him in writi As per th respective "Check F If a candi in displayed Write sui Write sui Write jaw time.	ee 00 500 000 500 ing the code to do the following: e hobby chosen in the hobby combo box, fee should be displayed in the e text field named t1 as per the criteria given above after clicking or 'ee" button. idate belongs to "Jr. Category" then a discount of 10% should be giver /ed in the text field. cking on the "Net Fee" button, Net Fee should be calculated and l in the respective text field as per the given formula: Net Fee = Fee – Discount table java code to close the application. /a statement to add a new hobby "Reading" in the combo box at rur OR
Dane Drav Mus Sing Help i. ii. iii. iv. v.	cing 10 wing 15 ic 2 jing 25 him in writh As per th respective "Check F If a candi in display After cli- displayed Write sui Write sui Write jav time.	 be be bood <
Dand Drav Mus Sing Help i. ii. iii. iv. v. v.	cing 10 wing 15 ic 2 ing 25 him in writi As per th respective "Check F If a candi in displayed Write sui Write sui Write jaw time. e java staten	ee 00 500 000 500 ing the code to do the following: e hobby chosen in the hobby combo box, fee should be displayed in the e text field named t1 as per the criteria given above after clicking or 'ee" button. idate belongs to "Jr. Category" then a discount of 10% should be giver /ed in the text field. cking on the "Net Fee" button, Net Fee should be calculated and l in the respective text field as per the given formula: Net Fee = Fee – Discount table java code to close the application. /a statement to add a new hobby "Reading" in the combo box at rur OR

Library

	OR											
	1990	DAIL										
		EGORY JE_DATE	Varchar Date		10							
		K_NAME EGORY	Varchar Varchar		20							
		K_ID	Integer		2	Primar	у Кеу					
		name	Datatype		Size	Constra						
	Table: BOOKS											
. (a)) Write	SQL query to	create a table	"BOOK	.S" wit	the to	llowing struc	ture:	2			
	your answer. Suggest the correction (s) if required.(a) Write SQL query to create a table "BOOKS" with the following structure:											
	Check if above given SQL commands will be able to achieve desired task or not. Justify your answer Suggest the correction (s) if required											
	alter library set price=price+50;											
	ii. To give an increase of 50 Rs. to all the books:											
	update table library add column rating varchar(20);											
	i. To add a new column "Rating":											
(d)	(d) Rishi, a class XII student has given following commands for the given purposes:											
	the bo	ok's name wh	hich has been re	eturned	should	be disp	layed.					
	all the	book's name	e should be dis	splayed	which	has not	been returne	1				
		-	ible command				•	quence so th	at first			
	character to 50 characters. iii. Mention the significance of Bid column in table Library.											
	ii. Suggest the suitable SQL command to change the size of column name from 30											
	i. Suggest the suitable data type for Issue_Date column.											
	L	1		1	<u>I</u>		1	1]				
		Success	Pike				10	Ketuineu				
	B05	Real Success	Patrick Mather-	250	Sia		2018-06- 18	Not Returned				
	D05	cheese	Data: -1-	250	C:		2019.07	Net				
		moved my	Jhonson				17	Returned				
	B04	Who	Spencer	450	Ram		2018-03-	Not				
		win		250	ruju	~	16					
	B03	his Ferrari You can	Shiv Khera	230	Rajat	Ţ	2018-04-	Returned				
		who sold	Sharma				15	Returned				
	B02	The Monk	Robin	340	Simn	ni	2018-03-	Not				
		THE	Kalam				20					
	B01	Wings of Fire	A.P.J Abdul	550	Sarita	a	2018-05- 20	Returned				
	Bid	Name	Author	Price		_name	Issue_Date	Status				
	Bid	Name	Author	Price	Mem	_name	Issue_Date	Status				

(b) In a Bank's database, there are two tables 'Customer' and 'Transaction' as shown below.

	below.							
		Cust	omer					
	Acc_No	Cust_Name	Cust_City	Cust_Pl	one	Open_Bal		
	2101001	Sunita	Ambala	971055		10000		
	2201002	Sandhya	Patna	8223545	5233	15000		
	2301003	Vivek	New Delhi	9972130		13000		
	2401004	Meena	New Delhi	932130	5453	10000		
	Transaction							
	Trans_Id	Acc_No	Transactio	on_Type	Amo	ount		
	Tr001	2301003	Credit		1500			
	Tr002	2201002	Credit		2000			
	Tr003	2101001	Debit		3500			
	Tr004	2301003	Credit		2600			
	Tr005	2301003	Credit		2400	JU		
	Consider tl	hese tables wh	ile attempting	the quest	ions g	given below:		
	(i) Identify	the candidate	keys of Custo	mer table			1	
			•	OR				
	(i) Briefly	explain the co	ncept of Cand	idate keys	8.			
	(ii) Which	column can be	e considered a		key co	olumn in Transaction table?	1	
	(1) T1		1	OR				
	(ii) Identify	Primary Key	column of Tra	ansaction	table.			
(c)	With refere	ence to the abo	ove given table	es, attemp	t the c	questions given below:	9	
	(i) Write a	query to displ	lay customer's			s withdrawn the money.		
	(i) Write a	a uery to disp	lay customer's	OR s name al		vith their transaction details.		
	(1) WINC C	r query to disp	idy customer s	s name ar	511 <u>6</u> w	the men transaction details.		
	(ii) Write a	a query to disp	lay customer's	s name w	ho hav	ve not done any transaction yet.		
				OR				
	(ii) How many rows and column will be there in the Cartesian product of the above							
	given tables. Also mention the degree and cardinality of the Cartesian product of the above given tables.						of	
	(iii) Select	Acc No. 9	sum(Amount)	from	Custo	mer c, Transaction t when	e	
	. ,		, ,			Transaction_Type="Credit";		
				OR	<u> </u>			
	(iii) Discu examp	-	ance of havin	g clause	with	group by statement with suitabl	e	
(a)	It's an era c	of online finan	cial transaction	ns Heln	[11]ie i	n identifying any two challenges	<u> </u>	
(u)		ommon man m		-	une I	in isonitrying any two chancinges		
							1	

7.

(b) Mention any one major environmental benefits of ICT to Ms. Megha so that she can utilize it in her future "Save Earth" campaign

(c) Ms. Achla, works as a Programmer in a survey firm named "National Survey 2 Foundation". In her current project, she is supposed to design a survey page for an online educational training program. Help her in choosing the most appropriate controls for the specified task from Textfield, Label, RadioButton, CheckBox, ListBox, ComboBox, Button and write in the third column:

1

S. No.	Control used to input	Control
1	TRAINEE'S NAME	
2	TRAINING LOCATION	
3	GRADE THE SESSION (Excellent, Good, Satisfactory, Unsatisfactory)	
4	SUGGESTIONS	