### 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.	1
Classesult.in	
(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
<ul> <li>(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.</li> </ul>	4

	(a) Ruby, a class XI student has just started learning java programming. Help her in the following:	,				
	i. Explain her the concept of variable and data type by suitable example.					
	ii. Help her in understanding the difference between assignment operator and					
	comparison operator with the help of appropriate example.					
_	(b) Will the output from the following two code be any different?					
	First Code:					
	int $x=2, y=40;$					
	while(y<=x) {					
	jTextField1.setText(""+x);					
	x = x + 8;					
	}					
	Second Code :					
	int x=2,y=40;					
	do {					
	jTextField1.setText(""+x);					
	x=x+8;					
	} while(y<=x);					
	Give reasons for your answer.					
_	OR					
	(b) Predict the output of the following code:					
	int n=4,f=0,i;					
	$for(i=1;i\leq=n;i++)$					
	{ f=f*i; }					
	<pre>} jTextField1.setText(""+f);</pre>					
	5					
	jTextField2.setText(""+i);					
	(c) Dev, a website designer with "Creative Designers Pvt. Ltd." has written the following					
	code. Observe the code given below and answer the 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?					
	ii.Identify the root element.					
	iii. Mention any two child elements.					
	iv.Mention any two attributes					

(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						
<ul><li>ii. To display list of f</li><li>iii. To display all the its fee.</li></ul>	neenarediff.com NULL <u>nav@gmail.com</u> query for the follow y female candidates ree trainings. cities where Cyber reedback with suitab "Training" given ab mg where topic = 'Cy Id) from training where Top ing where INSTR (	s will be attent Security tra le data type. ove carefully ber Security'; ere email_id bic = 'Cyber S Email_Id, '@'	nding the trai ining is sche y and predict like '%gmail ecurity'; )=0;	eduled along with the output of the		
(a) Shiva has placed two rad mode of payment one out		his surprise,	during runti	me, a customer is		

(c) What will be an output of the following code if value of variable application is 1?	
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.	
(d) Anju, a beginner in java programming has written following code with some mista int k=0;	kes:
string s="Save Earth";	
int l=s.length;	
for(int i=0;k<1;i++)	
{	
jTextArea1.append(s+\n);	
k++;	
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)	
while(ctr>5) { ctr=ctr-2; } assresutin	
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
immediately after exiting from the loop.	
ii. Out of entry controlled or exit controlled loop, above given loop will come	under
which category and why?	
(e) Study the following code and answer the questions that follow:	
String str="Green World, Clean World";	
int len=str.length(),remain;	
remain=100-len;	
jTextField2.setText(str.toUpperCase());	
jTextField3.setText(Integer.toString(remain)+" more charachters can be entered");	
i. Predict the output displayed in text fields named jTextField2 and jTextField3	3 after
i.Predict the output displayed in text fields named jTextField2 and jTextField3 running the above code.	3 after
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i.Predict the output displayed in text fields named jTextField2 and jTextField3 running the above code.	3 after
<ul> <li>i. Predict the output displayed in text fields named jTextField2 and jTextField3 running the above code.</li> <li>ii. Identify and name any two method of String class used in the above code.</li> </ul>	

		ub as shown below:					
4							
	NEW HORI	ZON 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					
Mus Sing Helj i. ii. iii. iv. v. v.	ging 2500 p him in writing As per the h respective te "Check Fee' If a candidat in displayed After clickin displayed in Ne Write suitab	The code to do the following: The code to do the following: The bobby chosen in the hobby combo box, fee should be displayed in the ext field named t1 as per the criteria given above after clicking on "button. te belongs to "Jr. Category" then a discount of 10% should be given in the text field. Ing on the "Net Fee" button, Net Fee should be calculated and the respective text field as per the given formula: et Fee = Fee – Discount be java code to close the application. statement to add a new hobby "Reading" in the combo box at run					
(f) Writ	OR ) Write java statement to make the Net Fee text field named txtNetFee un-editable at run						
time	-						
(a) Wri	te any one simil	arity and one difference between primary key and unique Constraint					
L	. Pari, a beginn	er in SQL is not able to understand the meaning of "Cancelling a					
	-	her in understanding the same. Also mention suitable command for it					

			Lib	orary			
Bid	Name	Author	Price	Mem_nam	e Issue_Date	Status	
B01	Wings of Fire	A.P.J Abdul Kalam	550	Sarita	2018-05- 20	Returned	
B02	The Monk who sold his Ferrari	Robin Sharma	340	Simmi	2018-03- 15	Not Returned	
B03	You can win	Shiv Khera	230	Rajat	2018-04- 16	Returned	
B04	Who moved my cheese	Spencer Jhonson	450	Ram	2018-03- 17	Not Returned	
B05	Real Success	Patrick Mather- Pike	250	Sia	2018-06- 18	Not Returned	
charac iii. Me iv. Sug all the the bo	eter to 50 chara ention the sign ggest the suita book's name ok's name wh	acters. ificance of Bic ble command should be dis ich has been re	l colum to displa played eturned	n in table Li ay a list of tl which has n should be di	ne books in a se ot been returne	equence so the d and after	nat first
i. To a update ii. To g alter li Check	dd a new colu table library give an increa brary set price if above give	umn "Rating" : add column ra se of 50 Rs. to e=price+50;	ting var all the ands wil	char(20); books: l be able to a	achieve desired		
(a) Write	SQL query to	create a table		S" with the BOOKS	following struct	ture:	2
Field	Field name         Datatype         Size         Constraint						
	K_ID	Integer			ary Key		
-	K_NAME	Varchar		20			
	EGORY	Varchar		10			
ISSU	<b>JE_DATE</b>	Date					
		OR					
	Ramesh in ider le data type		vo colun	nns for a tab	le named studer	nt along with	h their

6.

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

2101001SunitaAmbala97105576141002201002SandhyaPatna8223545233150	20
2201002 Sandhya Patna 8223545233 150	JU
2201002   Sandinya   1 ama   0225545255   150	00
2301003 Vivek New Delhi 9972136576 130	00
2401004 Meena New Delhi 9321305453 100	00

Trans_Id	Acc_No	Transaction_Type	Amount
Tr001	2301003	Credit	15000
Tr002	2201002	Credit	20000
Tr003	2101001	Debit	3500
Tr004	2301003	Credit	26000
Tr005	2301003	Credit	24000

Consider these tables while attempting the questions given below:

(i) Identify the candidate keys of Customer table.

(i) Briefly explain the concept of Candidate keys.

(ii) Which column can be considered as foreign key column in Transaction table?

OR

1

1

9

(ii) Identify Primary Key column of Transaction table.

(c) With reference to the above given tables, attempt the questions given below:

(i) Write a query to display customer's name who has withdrawn the money.

(i) Write a query to display customer's name along with their transaction details.

(ii) Write a query to display customer's name who have 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.

(iii) Select Acc\_No, sum(Amount) from Customer c, Transaction t where c.Acc\_No=t.Acc\_No group by c.Acc\_No having Transaction\_Type="Credit";

#### OR (iii) Discuss the significance of having clause with group by statement with suitable example

# 7.(a) It's an era of online financial transactions. Help Julie in identifying any two challenges<br/>which a common man may face for the same.2

(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	

# ClassResult.in