# Class XII <br> Informatics Practices <br> Sample Question Paper 2018-19 

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

1. (a) Which of the following are open standards?
.OGG .DOC .BMP .ODF
(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.

(c) Write the URL of any one e-Governance website.
(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 :
(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.
(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.
2. (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 $\mathrm{x}=2, \mathrm{y}=40$;
while $(y<=x)$ \{

```
jTextField1.setText(""+x);
x=x+8;
    }
```

Second Code :
int $\mathrm{x}=2, \mathrm{y}=40$;
do \{

$$
\begin{aligned}
& \text { jTextField1.setText(""+x); } \\
& x=x+8 ; \\
& \text { \} while }(\mathrm{y}<=\mathrm{x}) \text {; }
\end{aligned}
$$

Give reasons for your answer.

## OR

(b) Predict the output of the following code:
int $\mathrm{n}=4, \mathrm{f}=0, \mathrm{i}$;
for $(\mathrm{i}=1 ; \mathrm{i}<=\mathrm{n} ; \mathrm{i}++$ )
\{
$\mathrm{f}=\mathrm{f} * \mathrm{i}$;
\}
jTextField1.setText(""+f);
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>
<employee eid=1>
<name>Albert</name>
$<$ dept deptid="d1">Computer</dept>
</employee>
<employee eid=2>
<name>Manisha</name>
$<$ dept deptid="d2">Accounts</dept> </employee>
</company>
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





|  | (b) In a Bank's database, there are two tables 'Customer' and 'Transaction' as shown below. <br> Customer <br> Transaction <br> Consider these tables while attempting the questions given below: |  |
| :---: | :---: | :---: |
|  | (i) Identify the candidate keys of Customer table. OR <br> (i) Briefly explain the concept of Candidate keys. | 1 |
|  | (ii) Which column can be considered as foreign key column in Transaction table? <br> OR <br> (ii) Identify Primary Key column of Transaction table. | 1 |
|  | (c) With reference to the above given tables, attempt the questions given below: <br> (i) Write a query to display customer's name who has withdrawn the money. <br> OR <br> (i) Write a query to display customer's name along with their transaction details. <br> (ii) Write a query to display customer's name who have not done any transaction yet. <br> OR <br> (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. <br> (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"; <br> OR <br> (iii) Discuss the significance of having clause with group by statement with suitable example | 9 |
| 7. | (a) It's an era of online financial transactions. Help Julie in identifying any two challenges 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 <br> utilize it in her future "Save Earth" campaign | $\mathbf{1}$ |
| :--- | :--- | :--- | :--- |
| (c) Ms. Achla, works as a Programmer in a survey firm named "National Survey <br> Foundation". In her current project, she is supposed to design a survey page for an <br> online educational training program. Help her in choosing the most appropriate controls <br> for the specified task from Textfield, Label, RadioButton, CheckBox, ListBox, <br> ComboBox, Button and write in the third column: | 2 |  |
| S. No. Control used to input Control <br> 1 TRAINEE'S NAME  <br> 2 TRAINING LOCATION  <br> 3 GRADE THE SESSION <br> (Excellent, Good, <br> Satisfactory, Unsatisfactory)  <br> 4 SUGGESTIONS  |  |  |

