

Solved Sample Paper – 2015
Class – XII
Subject – Informatics Practices (065)

Note : All the questions are compulsory.

1. (a) Differentiate between dedicated and non-dedicated server
 2
Ans **Dedicated Server** – it is a computer that is reserved to work only as a server on a network. The task of this server is to help workstations access data, hardware and software over the network.
Non-dedicated server – It is a server that performs function of both as a server and workstation simultaneously on a network. It requires good memory to manage the functioning of both. This type of server shares the resources on a small scale.
- (b) In the www.google.com URL, which of the following part represents the name of the website? 1
Ans google
- (c) Compare bus and ring topology?
 2
Ans **Bus Topology** – It is known as linear topology. On the behalf of single cable, all the computers are connected.
Ring Topology – It is known as circular topology. In this topology, each node is connected only to its two neighboring nodes through its two ends.
- (d) Do you prefer using switch over hub? If yes, why and in which circumstances?
 2
Ans Yes, switch can be preferred over a hub in situations where there are no restriction on budget. It demands full usages of bandwidth and good communication speed. This can be illustrated on the basis of following reasons:
 1. Both, hub and switch are used to connect multiple computers together but the speed of hub is very less as compared to that of switch.
 2. The computers that are connected in a hub shares a bandwidth but the computers that are connected with switches communicate at full bandwidths.
 3. Hubs are cheaper than switch.
- (e) Which of the following are open source LINUX , MS Window Vista , Python , MySQL , PageMaker. 1
Ans LINUX, Python, MySQL
- (f) What is ogg vorbis?
 1
Ans Ogg Vorbis is an open format for audio streaming. It is comparable to other digital formats that are used to store and play digital music such as MP3, VQF, and AAC.

(g) What is font? Name the parameters on the behalf of it categories.

1

Ans Font – Fonts refers to a group of printable and displayable text characters which have some particular style and size. Parameters are:

1. Technical specifications
2. Font configurations

2. (a) Name any two integer data type which store only integer value.

1

Ans Integer Data Types – byte, int, long, short

(b) What is the use of return statement in method.?

1

Ans The use of return statement is used to return a value.

(c) What is the basic structure of HTML file?

1

Ans <HTML> , <HEAD>, <TITLE>, <BODY> tags

(d) Difference between implicit and explicit type conversion.

2

Ans Implicit Type Conversion – It is also called automatic conversion. This type of conversion is performed by the compiler. In this conversion data type is promoted.

Explicit Type Conversion – The forced conversion of one data type into another is called as explicit conversion. It is a user-defined type conversion.

(e) What is an expression? Differentiate between Compound and Boolean/Relational Expression. 2

Ans Expression – It is a combination of variables, operators and constants.

Compound Expressions – Those expressions that are created by combining two or more simple expressions with the help of operators. Example : $(x+y) * (u+v)$, $(p>q) || (q>r)$

Boolean/Relational Expressions - The Boolean expressional is also called logical expression. They either result in true or false.

(f) Differentiate between Exit-Controlled Loop and Entry-Controlled Loop.

2

Ans Entry-Controlled Loop – Those loops where condition is checked before entry in the body of loop, called Entry-Controlled loops. Example : While and for

2

Exit-Controlled Loop – The loop where condition is checked at the end of the loop, called Exit-Controlled Loop. Example: do-while

(g) Name two jump statements.

1

Ans break, continue, return

Q3 (a) What will be the contents of jTextField after executing the following statement? 1

`jTextField.setText ('B' + 'a')`

Ans This statement will display the error. Correct statement should be `jTextField.setText ("B" + "a")`

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(b) Predict the output for the following code.

```
2
int l, n = 20;
for( l = 1 ; l < n; n-- ) {
System.out.print(i);
l = l + 2;
}}
```

Ans 1 3 5 7 9 11 13

(c) What is constructor. Give example.

2

Ans Constructor is a special function of a class whose name is same of its class.

```
Class Student
{
    private int rl, marks;
    public Student( )
    {
        rl = 10;
        marks = 90;
    }
}
```

(d) Differentiate between Container and child control.

1

Ans Child Control – Those control which work individually. They can't contain any other control.

Container Control – Those controls which contain other controls.

(e) Identify the errors and tell the output (jTF1 = 20 , jTF2 = 10)

2

(i) `int m = integer.getInt(jTF1.getText() + jTF1.getText());`

Ans `int m = Integer.parseInt(jTF1.getText() + jTF2.getText());`

(ii) `JOptionPane.showMessageDialog(null , “ ” + (m +1)) ;`

Ans `JOptionPane.showMessageDialog(null , " "+ (m +1)) ;`

(f) What will be the value of A and B after execution of the following code?

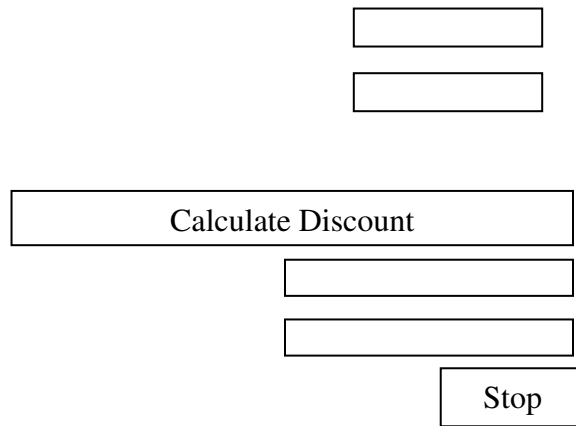
2

```
int A = 100, B;
for( B=10; B<=12; B++)
{ A+=B; }
JOptionPane.showMessageDialog(null, “A:” + A + “B:” + B + “ “);
```

Ans A:133 B:13

(g) Virus software Hut has developed the following Interface as shown below.

<u>Virus S/w Hut</u>		
Name of customer		
Bill amount		
<input type="radio"/> Cash	<input type="radio"/> Credit Card	<input type="radio"/>
Cheque		



If Bill amount is > 10,000 than discount is as follow

Payment Mode	Discount
Cost	15 %
Credit Card	N/L
Cheque	10 %

- i. Write the code to make the TextFields for Discount & Net Amount in editable.

1

Ans `discountTF.setEditable(false);`
`netamountTF.setEditable(false);`

- ii. Write code to “Calculate Discount” button as per given criteria and discount and net amount should be displayed in TextField.

3

Ans `private void calculatebuttonActionPerformed(java.awt.event.ActionEvent evt) {`
`double billamt=0.0;`
`double disc=0.0;`
`double net=0.0;`
`billamt=Double.parseDouble(billTF.getText());`
`if(billamt > 10000)`
`{`
`if(cashRB.isSelected())`
`disc=billamt*15/100;`
`if(creditcardRB.isSelected())`
`disc=0;`
`if(chequeRB.isSelected())`
`disc=billamt*10/100;`
`}`
`}`

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```
net=billamt-disc;  
netamountTF.setText(" " + net);  
discountTF.setText(" " + disc);  
}
```

iii. Write code for "Stop" button to close the interface.

1

```
Ans private void stopbuttonActionPerformed(java.awt.event.ActionEvent evt) {  
System.exit(0);  
}
```

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