

CBSE Class 11th Informatics Practices (Theory)
Half Yearly Examination Set-B 2016-2017
Indraprastha International School

General Instructions

- This question paper contains 9 questions.
- Write the answers neatly and legibly.
- All questions are compulsory.

1. Answer the following questions:

- a. What is a bus? What is the difference between Data Bus and Address Bus of a computer system? (1)
- b. Differentiate between Single user & Multiuser Operating System. (1)
- c. How is OCR different from OMR? (1)
- d. What is the danger of a Trojan Horse? How does it support spyware? (1)
- e. Define the term Firewall in computers. How does firewall work to protect your computer? (1)

2.

- a. What is a Cyber Crime? Name the Cyber Act in India. (1)
- b. Expand the term CAPTCHA. Explain its usage. (1)
- c. What do you mean by PC intrusion? Name any one method to avoid it. (1)
- d. Write short notes on : (i) Cookies (ii) Worms (2)

3.

- a. While working in NetBeans, Riyan wants to display “Cleared” or ‘Re-attempt required’ message depending on the marks entered in JTextField. If marks are more than 40 then display the message “Cleared” otherwise display “Re-attempt required”. Help him choose the most appropriate statement out of ‘if statement’ and ‘Switch statement’. Write the code and justify your answer. (3)
- b. What are the two ways to convert Integer Values into String Type? (2)
- c. How is setEditable() method different from setEnabled() method of swing controls? (2)
- d. What will be the output of the following code segment. If char ch='x'; int a=3? (2)
switch (ch)

```
{
case 'a': ++a;
case 'x': ++a;
case 'd': --a;
}
```

4. **Common Wealth International is a bank. The bank provides three types of loans – Car loan, House loan, Education loan.**



- Write the command to make the txtNetamt un-editable and set car loan as default loan type. (2)
 - Write the command for Show Interest Amount button to show the interest rate in txtRate according to the following criteria: (3)
 - Car loan – 10%
 - House loan – 8.5%
 - Education loan – 5%
 - Calculate net amount as interest + amount and display in message box. (2)
 - Write the code to exit the application. (1)
- 5.
- What will the following java statements do? (5)**
 - Integer.parseInt(jTextField1.getText());
 - jTextField2.setText("First Term Exams");
 - String A = "Hello" + "World";
 - x = Double.parseDouble(jTextField1.getText());
 - JTextArea1.append("10+\n+12");
 - Write a program to calculate the**
 - power of a given no. (4)
 - sum of n natural numbers. (4)

6.

- a. **Rewrite the following Switch...case statement code using if...else statement: (2)**

```
int choice=Integer.parseInt(jTextField1.getText());
switch(choice)
{
case 1: jTextField2.setText("January");
break;
case 2: jTextField2.setText("February");
break;
case 3: jTextField2.setText("March");
break;
case 4: jTextField2.setText("April");
case 5: jTextField2.setText("May");
break;
default:
jTextField2.setText("Only enter 1 to 5 please...");
}
```

- b. **Find out the error(s) in the following code, if any: (2)**

```
int sum=0;
int i==1;
do while(i<=10)
{
sum=sum+i;
i=i+3
}
Systum.println(sum);
```

- c. **What will be the output of the following code segment: (4)**

- i. jTextField1.setText("All \t the Best \n Class \t XI");
- ii. What will be displayed in Text1 and Text2 TextFields?
String Text1, Text2;
Text1="Good Morning";
Text2= "India";
Text1 = Text2+Text1;

d. **Rewrite the following code using for Loop: (2)**

```
int c;  
c=2;  
while (c<5)  
{ JTextArea1.append (Integer.toString(c+c));  
}
```

7. **Ravi is a programmer at Arora Book Store. He created the following GUI in Netbeans. Help him in writing code for the following:**



- Write the code for [Calculate Price] button. Total price should be displayed in txtprice as book price into number of copies. (3)
- Write the code to clear all the text fields and uncheck the check box, on the clicking of [Reset] button. (3)
- Write the code for EXIT Button to close the application. (1)

8. **Answer the following questions:**

- Which error is harder to locate and why? (2)
- Differentiate between compile time errors and runtime errors. Give examples of each. (2)
- Explain the following terms: (2)
 - Exception Handling
 - Prettyprinting

9. **Answer the following questions:**

- Define Back End. Name any one Backend software. (2)
- What is e-Governance? Give one advantage and one disadvantage. (3)
- Suruchi works for a Shopping Mart. She wants to create controls on a form for the following operations :-
Choose the most appropriate controls out of Text Box, Label, Radio Button, List Box, Combo Box, Check Box

S.No.	Function
1	Enter the code in hidden characters
2	Select Item Size (from a list of sizes)
3	Enter the Remarks of the Customer
4	Submit the Form