

CBSE Class 11th Informatics Practices (Theory)

Unit Test-1 Set-C 2016-2017

Indraprastha International School

General Instructions:

- This question paper contains 5 question.
- All the questions are compulsory.
- Write answers neatly and legibly.
- Marks for each question are indicated against it.

1. Name each of the following: (3)

- A device used to display soft copy of the result
- Collection of 4 bits
- A program used to check and remove viruses
- Any one utility program
- A window displays name of all controls for a selected project
- Extension for java file

Ans. a. Monitor

b. 1 nibble

c. Antivirus

d. WINDOWS,LINUX

e. Editor/backup

f. .java

2. Answer the following questions: (12)

- Give one example for each system software and utility software.
- Write the full form for MICR and TFT.
- Write any two limitations of using computers.
- Define any two advantages of using CDROM over Hard Disk.
- Differentiate between char and String data type with a suitable example.
- What do you mean by container controls? Name any two properties of Push button.

Ans. a. Name of the os , name of the antivirus

b. Megnetic ink character reader, thin film transistors

- c. Zero iq, power
- d. More space, portable
- e. Char single character, string more characters
- f. Control that can contain other controls in it. Any two properties

3. Do as directed: (8)

- a. **Find the error in following Java code and rewrite the corrected code:**

Int a,b,c;

```
a=Integer.parseInt(jTextField1.getText());
```

```
b = =10;
```

```
a+b=c;
```

```
System.out.print("addition" c);
```

Ans. `int a,b,c;`

```
a=Integer.parseInt(jTextField1.getText());
```

```
b =10;
```

```
c=a+b;
```

```
System.out.print("addition"+c);
```

- b. **Rewrite the following code using Switch-case statement without effecting the output of the code:**

```
char x;
```

```
if(x=='a')
```

```
System.out.print("Outstanding performance");
```

```
else if(x=='b')
```

```
System.out.print("Excellent");
```

```
else if(x=='c')
```

```
System.out.print("Can do better");
```

```
else if (x=='d')
```

```
System.out.print("Needs Improvement");
```

```
else
```

```
System.out.print("Wrong cod");}
```

Ans.

```
char x;
```

```
switch(x)
```

```
case 'a':
```

```
System.out.print("Outstanding performance");
Break;
case 'b':
System.out.print("Excellent");
Break;
case 'c':
System.out.print("Can do better");
Break;
case 'd':
System.out.print("Needs Improvement");
Break;
Default:
```

c. Find the output for the following code written in Java:

```
int a,b;
a=31;
b=41
a+=40;
System.out.println(""+(++b)+(a--));
System.out.println(""+a+" "+b);
```

Ans.

113	
71	41

d. What will be the content of JTextArea after executing the following code?

```
int n=600;
n--;
if(n>599)
JTextField1.setText(Integer.toString(++n));
else
jTextField1.setText(Integer.toString(n--));
jTextarea1.append("Indraprastha \t International\n School"+" \t"+n);
```

Ans.

Indraprastha	International
School	588

4. **Milan Cinema has computerized its billing system. The programmer has developed a GUI application in Netbeans as shown below:**



- a. **What should be done so that only one of the radio buttons (Gold, Silver or Bronze) can be selected at a time. (1)**

Ans. Button group

- b. **Calculate tax according to the condition given below: (2)**

For Gold	5% on ticket amount
For Silver	7% on ticket amount
For Bronze	10% on ticket amount

For staff people deduction in tax to be calculated as 2%.

Ans. Use of gettext, joptionpane, is selected, checkbox

- c. **Calculate and display the total ticket amount message box when calculate button is pressed. (1)**

Ans. Use of setselected and clear

- d. **Clear all the text fields. Set retailer option as default. (1)**

Close the application when Exit button is clicked.

Ans. Use of system.exit

5. **Write the Java code for any one of the following : (2)**

- a. Write a program to check whether an entered number is even or odd.
- b. Write a program to enter two numbers and an operator symbol to perform basic calculation (addition, subtraction, multiplication and division) using switch-case.

Ans. a. Use of % operator and if-else

b. Use of switch, case, break and default