MAX. MARKS: 70



ARMY PUBLIC SCHOOL, R. K. PURAM

HALF YEARLY EXAMINATION, Sept. 2011

CLASS: XI
TIME: 3 Hrs

SUBJECT: INFORMATICS PRACTICES

SET – 2

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1Q	(a)	Which of the following is a hardware:	
		(i) Hard disk (ii) O S (iii) Utility Program (iv) CPU (v) Assembler (vi) A Java Program	1
	(b)	Define the terms: (i) bit (ii) megabyte	1
	(c)	What are the major classification of computers ?	2
	(d)	What are the types of Operating Systems? Discuss their functioning in brief.	2
	(e)	What is a communication bus ? Name the types briefly.	2
	(f)	Write the full forms of the following terms : (i) LCD $$ (ii) MICR $$ (iii) OCR $$ (iv) DVD-RW	2
2Q	(a)	Name any 4 ports and mention they need.	1
	(b)	Name any four active protection method to secure to PC.	1
	(c)	What is the difference between volatile and non-volatile memories?	2
	(d)	Differentiate between the two language processors that converts HLL to machine language	2
	(e)	Define the terms: (i) Malware (ii) Firmware	2
	(f)	Convert the Hexadecimal number 8F to Binary number. i.e., (8F) $_{16}$ = () $_2$	2
3Q	(a)	What is Write Once Run Anywhere characteristic of Java ?	1
	(b)	Differentiate between a Combo Box and List Box	1
	(c)	What is the difference between while and do-while looping statements?	2
	(d)	What are the primitive data types of Java?	2
	(e)	What are the various operators in Java ?	2
	(f)	Write a program to check wither the person is major or minor based on given age using conditional operator.	2
4Q	(a)	While working in Netbeans, Ms. Lakshmi wants ensure that only one radio button is selected at	
		a time. What properties will help her.	1
	(b)	How one can make a Text Field as a Label on a Frame ?	1
	(c)	The following code has error(s). Rewrite the correct code underlining all the corrections made :	
		Int $Sum = 0$ Step = 5 i:	2





5Q

(b)

controlled)

int x = 5, y = 50;

```
for (i = 0; i = < 5, i ++);
       Step += 5,
       Sum += Step;
     ¡TextArea1 . putText ( " " + Sum )
(d)
     Rewrite the following program code using a switch statement:
     if (code = 0)
                                                                                                    2
       Week = "Sunday";
     else if ( code = = 2 )
       Week = "Tuesday";
     else if (code = = 4)
       Week = "Thursday ";
     else
       Week = "No Match";
     Rewrite the following code using for loop.
(e)
     int i = 2;
                                                                                                    2
     do {
       JOptionPane . showMessageDialog (null, i + " ");
       i += 2;
      \} while ( i < 51 );
     JOptionPane . showMessageDialog (null, "Thank You");
     Rewrite the following code using while loop.
(f)
                                                                                                    2
      for (i = 0; i < 10; i ++)
       ta1. append (2 + "x" + i + " = " + (2 * i));
     What will be displayed in jTextArea1 after executing the following statements?
(a)
                                                                                                    1
       jTextArea1 . setText ( " Army \ t Public \n School \ n RK PURAM \ t Half Yearly 2011 " );
```

How may times does the following loop execute? What is its type (Entry controlled or Exit

1



2

1



```
while (x < = y)
{
  tal. append ("" + x);
  x = x + 3;
}
```

(c) What will be the value of P and Q after execution of the following code:

```
int p, q = 200;

for (p = 20; p < = 22; p ++)

q += p;

JOptionPane . showMessageDialog (null, "P:" + p + "Q:"+q);
```

(d) What will be the value of a and b after execution of following code:

```
int a = 10, b = 20;
if (++b < 50)
a * = b;
```

(e) What will be displayed in jTextField1 after executing the following code?

```
int m = 26;
m = m + 2;
if ( m < 25 )
    jTextField1. setText ( Integer . toString ( m ) );
else
    jTextField1. setText ( Integer . toString ( m + 25 ) );</pre>
```

(f) What will be the value of x and y after execution of following code:

```
int x, y = 0;

for (x = 1; x < = 15; ++x)

y = x + +;

--y;
```

6Q (a) What will be the output of the following code fragment when the value of ch is 'B': switch (ch) {





```
case 'A': tal. append (" Grade A");
       case 'B': tal. append (" Grade B");
                 break;
       case 'C': tal. append (" Grade C");
       case 'D': tal. append (" Grade D");
       default : ta1. append (" Grade F");
(b)
     State the output of the following code:
                                                                                                      1
     int a = 10, b = 5;
     if (a > b)
       if (b > 5)
        tf1. setText("b is" + b);
     else
        tfl. setText ( "a is " + a );
      }
                                                                                                      2
(c)
     What are these methods used for ?
     (i) isSelected ( ) (ii) setSelected ( )
                                            (iii)getChar() (iv) getText()
(d)
     While working in Netbeans, Ms. Lakshmi wants to create controls on a sports form for the
                                                                                                      2
      following functions. Choose appropriate swing controls for the following:
     (i) Enter Team name (ii) Select Sport Type (iii) Choose number of players (iv) Save form
     Write a Java class program to print the first 10 even natural numbers using while loop.
                                                                                                      2
(e)
(f)
     Write Java code that takes the total amount of pencils from jTextField1 and number of pencils
                                                                                                      2
     from JTextField2 and calculate 20% service tax out of total amount in jTextField3. Also
```

7Q Case Study: Glamour Garments has developed a GUI application for their company as:

calculate price per pencil as total amount / number of pencils to be displayed in jTextField4.



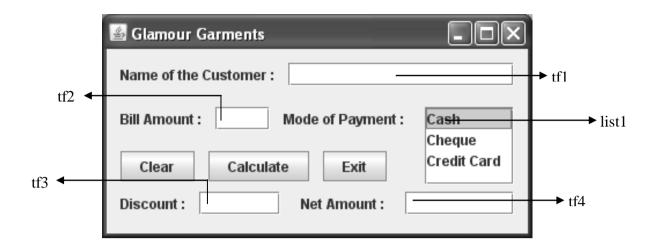
CBSEGuess.com

2

2

3

1



- (a) Write the code for Clear button to clear all the text fields and the list box.
- (b) Write the code for Exit button the application should be closed while displaying a message 2 "Happy Shopping".
- (c) Write the code for Calculate button to:
 - (i) To ensure that the Bill Amount entered by the user is a positive number, if it is negative prompt a message to the user asking to reenter the valid Bill Amount
 - (ii) Calculate the discount on bill amount and display it in the respective text field, As per the given criteria:

Mode of Payment	Discount
Cash	8 %
Cheque	7 %
Credit Card	Nil

(iii) Calculate net amount as: Net Amount = Bill Amount – Discount and display it in the respective text field

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