

ARMY PUBLIC SCHOOL, R. K. PURAM

HALF YEARLY EXAMINATION, Sept. 2011

CLASS: XI
TIME: 3 Hrs

SUBJECT: INFORMATICS PRACTICES

MAX. MARKS: 70

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1Q	(a)	Which of the following is not hardware:	
		(i) Hard disk (ii) Printer (iii) Keyboard (iv) CPU (v) Assembler (vi) A Java Program	1
	(b)	Define the terms: (i) nibble (ii) gigabyte	1
	(c)	What are the major strengths and weaknesses of computer?	2
	(d)	What are the software classifications? Discuss their functioning in brief.	2
	(e)	What is a port ? Name some port types briefly.	2
	(f)	Write the full forms of the following terms : (i) VDU (ii) MICR (iii) OMR (iv) DVD	2
2Q	(a)	Name any 4 secondary storage devices and mention they need.	1
	(b)	Name any four anti virus software.	1
	(c)	What is the difference between RAM and ROM?	2
	(d)	Differentiate between compiler and interpreter	2
	(e)	Define the terms: (i) Adware (ii) Spyware	2
	(f)	Convert the Hexadecimal number 9F to Binary number. i.e., (9F) $_{16}$ = () $_2$	2
3Q	(a)	What is Write Once Run Anywhere characteristic of Java ?	1
	(b)	Differentiate between a Text Field and Text Area	1
	(c)	What is the difference between if and switch statements?	2
	(d)	Name the data types supported by Java?	2
	(e)	What are the operators supported by Java?	2
	(f)	Write a program to check wither the given number is even or odd using conditional operator	2
4Q	(a)	While working in Netbeans, Ms. Lakshmi wants to display "Pass "or "Needs to Reappear"	
		message depending the marks entered in jTextField. Help her to choose more appropriate	1
		statements out of "if statement" and "switch statement".	
	(b)	How one can make a Text Field un-editable on a Frame ?	1
	(c)	The following code has error(s). Rewrite the correct code underlining all the corrections made :	
		int $Sum = 0$, $Step = 5$;	2





(b)

```
int I;
           for (i = 0; i < 5, i ++);
            Step += 5,
            Sum += Step;
           }
           jTextArea1 . showText (" " + Sum )
     (d)
           Rewrite the following program code using a switch statement:
           if (code = = 1)
                                                                                                         2
            Month = "January";
           else if (code = = 4)
            Month = "April";
           else if (code = = 8)
            Month = "August";
           else
            Month = "No Match";
           Rewrite the following code using while loop.
           int i = 2;
                                                                                                         2
           do {
            JOptionPane . showMessageDialog (null, i + " ");
            i += 2;
           \} while ( i < 51 );
           JOptionPane . showMessageDialog (null, "Thank You");
     (f)
           Rewrite the following code using do-while loop.
                                                                                                         2
           for (i = 0; i < 10; i ++)
            ta1. append (2 + "x" + i + " = " + (2 * i));
5Q (a)
           What will be displayed in jTextArea1 after executing the following statements?
                                                                                                         1
```

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

jTextArea1 . setText ("APS \ t RKPuram \ n HalfYearly \ t 2011 ");





6Q

```
controlled)
                                                                                                            1
      int x = 2, y = 20;
      while (x < = y)
        ta1. append (" " + x);
        x = x + 3;
       }
      What will be the value of P and Q after execution of the following code:
(c)
      int p, q = 100;
                                                                                                            2
      for (p = 10; p < = 12; p ++)
       q += p;
      \label{eq:continuous_problem} JOptionPane \ . \ showMessageDialog \ (null, "P:"+p+" \ Q:"+q);
      What will be the value of a and b after execution of following code:
(d)
      int a = 1, b = 2;
                                                                                                            2
      if (++b < 5)
       a * = b;
      What will be displayed in ¡TextField1 after executing the following code?
(e)
                                                                                                            2
      int m = 16;
      m = m + 1;
      if (m < 15)
        jTextField1. setText ( Integer . toString ( m ) );
        jTextField1. setText (Integer . toString (m + 15));
(f)
      What will be the value of x and y after execution of following code:
                                                                                                            2
      int x, y = 0;
      for (x = 1; x < = 5; ++x)
        y = x + +;
      - - y;
(a)
      What will be the output of the following code fragment when the value of ch is 'B':
                                                                                                            1
      switch (ch) {
```



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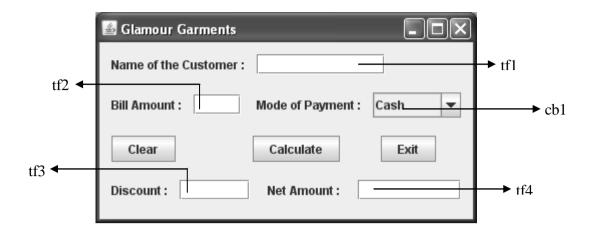
```
case 'A': tal. append (" Grade A");
       case 'B': tal. append (" Grade B");
       case 'C': tal. append (" Grade C ");
       case 'D': tal. append (" Grade D");
                 break;
       default : ta1. append (" Grade F");
      }
(b)
     State the output of the following code:
                                                                                                      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) isEditable ( ) (ii) setEditable ( )
                                           (iii)getEchoChar() (iv) setText()
(d)
     While working in Netbeans, Ms. Lakshmi wants to create controls on a form for the following
                                                                                                      2
     functions. Choose appropriate swing controls for the following:
     (i) Enter last name (ii) Select Gender (iii) Choose City from list of cities (iv) Submit form
     Write a Java class program to print the first 10 natural numbers using while loop.
                                                                                                      2
(e)
     Write Java code that takes the cost of a pencil from jTextField1 and number of pencils from
(f)
                                                                                                      2
     JTextField2 and calculate total amount as cost * number of pencils to be displayed in
```

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

jTextField3 and 20% service tax out of total amount in jTextField4. Draw the GUI also



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- (a) Write the code for Clear button to clear all the text fields and the check box.
- 2

2

3

1

- (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 textField

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