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CS-74

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

Term-End Examination

00561

June, 2017

CS-74: INTRODUCTION TO INTERNET PROGRAMMING

Time: 2 hours

Maximum Marks: 60

Note: Question number 1 is compulsory. Attempt any two questions from the rest.

What gets printed on the standard output when the class below is compiled and executed by entering "Java test lets see what happens"?
public class test {
public static void main (String args[])
{ System.out.println(args [0]+" "+
args[args.length - 1]);
}

```
Which line contains a constructor in the
(b)
      following definition?
                                                       2
      public class counter { //(1)
        int current, step;
        public counter (int StartValue,
                        int StepValue){ //(2)
           set(StartValue);
           setStepValue (StepValue);
        public int get() {return current;} //(3)
        public void set (int value) {current = value;} //(4)
        public void setStepValue (int StepValue)
        step = StepValue; \frac{1}{5}
      What is abstraction? Explain with an
(c)
                                                       3
      example.
      What will be the result of attempting to
(d)
      compile and run the following code?
                                                       2
      public class test extends thread
        public void run()
            system.out.println("Before start method");
            this.stop();
            system.out.println("After stop method");
      public static void main (string[] args)
            test t = new test();
            t.start():
```

	(e)	What is a stream? Differentiate between stream source and stream destination.	4
	(f)	Differentiate between the following using Java code fragment:	6
		(i) notify() and notify All()	
		(ii) throws and throw	
		(iii) >> and >>> operators	
	(g)	What is a package? How are packages imported in a Java program?	4
	(h)	Write a Java program to check if a number is odd or even. Give descriptive comments in your code.	7
2.	(a)	Describe the structure of an Applet, explaining its different methods and their sequence of execution.	5
	(b)	What are threads? How can they be created?	5
	(c)	Why do we use super() in Java? Write a program fragment to illustrate the effect of using super().	5
3.	(a)	What is built-in exceptions in Java? Explain the use of any one of them with the help of a suitable example.	5
	(b)	Write a Java program to read 10 numbers from the keyboard and sort them in descending order.	4

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P.T.O.

	(c)	what are the various colour constructors?	2
	(d)	Write the output of the following statements:	4
		int $a = -4$, $b = 8$	
		(i) a ^ b	
		(ii) a << 2	
4.	(a)	Write a program to accept two numbers at the command line and print out their sum.	6
	(b)	Why does one sometimes need to override a method of the parent class in its subclass? Write a program fragment to suitably override the method "volume()" of class solid in its subclass sphere.	6
	(c)	What is the 'Final' keyword in front of (i) a variable? (ii) a method?	
		(iii) a class?	3
5.	(a)	What is compile-time polymorphism? How does it differ from run-time polymorphism?	5
	(b)	What do you mean by a layout manager? Explain GridBagLayout in detail with an example.	6
	(c)	Why is Java called Architecture-neutral? Explain.	4