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BACHELOR OF COMPUTER APPLICATIONS (BCA) (PRE-REVISED)

Term-End Examination, 2019

CS-74 : INTRODUCTION TO INTERNET PROGRAMMING

Time : 2 Hours] |Maximum Marks : 60

Note : Question number 1 is compulsory. Attempt any three questions from the rest. Use Java programming language in your answers.

1.   (a)   Write a java program to accept radius in meters as user input from the command line and print the area of the circle with that radius.   [5]

      (b)   How is method overriding implemented in java ? Write the advantage of method overriding.   [5]

      (c)   What is built-in-exception ? List three built-in-exceptions with its meaning.   [4]

      (d)   Explain the concept of an interface. What is scope and nature of variables and methods in an interface ?   [5]

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(e) What is a constructor and what is it used for ? What statements can a constructor contain ? What is its return type ? [5]

(f) Write a program to find the sum and average of N given numbers. [6]

2. (a) Explain life cycle of a thread with help of a diagram. How do the wait and notify methods enable cooperation between threads ? [7]

(b) How does the repaint () method work for applets in java ? [3]

3. (a) What does it mean to say that a method or class is abstract ? Can we make an instance of an abstract class ? Explain it with an example. [7]

(b) Explain the meaning of a final class, final method and final variable. [3]

4. (a) Describe the usage of anyone byte stream class with an example. [4]

(b) Describe the various graphics methods for manipulating colours. Write a program to set the colour of a string to green. [6]

5.　(a)　Explain switch-case statement with example. What restrictions are placed on the values of each case of a switch statement ?　[5]

　　(b)　Write a recursive implementation of a function that calculates the factorial of any number from 1 to 10.　[5]

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