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Total No. of Questions : 09

Total No. of Pages : 02

B.Tech(IT) (2011 Onwards) (Sem.–5)
# PROGRAMMING IN JAVA
Subject Code : BTIT-502
Paper ID : [A2123]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1) Write briefly :

   a. List primitive Java types.

   b. What is finalize() method?

   c. What is Abstract class?

   d. Explain the following line used under Java Program :

   public static void main (String args[ ])

   e. What are Wrapper classes?

   f. Describe life cycle of thread.

   g. How finally keyword used under Exception Handling?

   h. Explain JVM.

   i. What is runtime polymorphism or dynamic method dispatch?

   j. What is a Socket and advantages of Java Sockets?

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SECTION-B

2) Write a Program using the concept of Inheritance, to set, to get and compare the features of different Vehicles. Create different methods for each feature.

3) What is function Overloading? Is operator overloading is possible in Java? Write a program to show the concept of Function overloading using inheritance.

4) Explain the terms :

   a) Final

   b) Super

5) Write the Syntax of following :

   a) While loop

   b) Switch case

6) Differentiate between Interface and Abstract Class, with example.

SECTION-C

7) Explain the following keywords with example :

   a) Bytecode

   b) Extends

   c) This

8) How an Applet is created? Describe the Applet Life Cycle. What are the requirements for creating an Applet?

9) a) What is multithreading? Give two advantages and disadvantages of multi threading.

   b) Write a program in java that receive two numeric inputs from user and then perform different arithmetic operations on them.