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PGIIIS-N 1548 B-16
M.Sc. IIIrd Semester Degree Examination
Computer Science
(Programming in JAVA)
Paper : HCT 3.1
(New)

Time : 3 Hours   Maximum Marks : 80

Instructions to Candidates:

    1.   Section A is compulsory.

    2.   Answer any five questions from Section B.

Section - A

1.   Answer the following questions :   (10×2=20)

    a)   Write the difference between Java application and Applet.

    b)   Describe byte code in Java.

    c)   What is a ragged array? How do you create it?

    d)   What is an object?

    e)   Define method overloading.

    f)   What is an exception? Write its types.

    g)   What is final class? Write its usage.

    h)   Mention different ways of creating a thread.

    i)   What is synchronisation?

    j)   List the layout managers in Java.

Section - B

2.   a)   Explain looping statements in Java with example.

    b)   Write a Java program to generate prime numbers between two integers m and n ($m < n$).   (6+6)

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3. a) Create a class by name emp with member data eno, name, dept and salary and perform the following with suitable methods

    i) Accept an employee details

    ii) Display employee detail and create a list of employees and sort them in an increasing order of salary.

  b) What is multilevel inheritance illustrate it with an example.   (6+6)

4. a) Explain the Java thread model.

  b) Write a Java program to create children threads using Runable interface.

5. a) Explain the life cycle of an Applet.

  b) Explain the procedure of creating and executing an applet with an example.

6. a) Discuss different types of streams.

  b) Write a Java program to create a file consisting of characters and also read from the file.

7. a) Explain the architecture of RMI.

  b) Write RMI server program to generate multiplication table of a number sent from a client.

8. Write short note on any two :

  a) JDK tools.

  b) Interfaces.

  c) Packages.

  d) Event handling.

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