R13

Code No: 813AQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, August - 2017
JAVA PROGRAMMING

Time: 3 Hours   **Max. Marks: 60**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A
                                                                 5 × 4 Marks = 20
1.a)   What is a constructor? Explain briefly various types of constructors.   [4]
  b)   What is inner class? Write its uses.   [4]
  c)   Discuss about Java.net package.   [4]
  d)   Discuss about thread priorities and how do set the priory to a thread in java. [4]
  e)   Elaborate the life cycle of applet.   [4]

PART - B
                                                                 5 × 8 Marks = 40
2.a)   Discuss various access modifiers in java.
  b)   Demonstrate string class and the methods available in string class.   [4+4]
                                    OR
3.a)   Write a java program to demonstrate method overloading.
  b)   Write the features of java programming language.   [4+4]

4.a)   What is inheritance? Write its advantages.
  b)   Write a java program to demonstrate multilevel inheritance.   [4+4]
                                    OR
5.a)   What is interface? Explain how it is differ from abstract class.
  b)   Design a java program to implement interface with an example.   [4+4]

6.a)   Give an account on Hash Table class and explain with example program.
  b)   Discuss about Treemap interface in detail.   [4+4]
                                    OR
7.   Explain the steps to create TCP connection using Socket class and design a java program to send a message to the server from client and waiting for response from the server.[8]

8.a)   Give a note on checked and unchecked exception.
  b)   Design a java class to handle checked and unchecked exception.   [4+4]
                                    OR
9.a)   What is thread and explain life cycle of thread?
  b)   Write a Java program to implement multi threading concept.   [4+4]

10.a) Discuss various layout manages in java.
   b) Write a java program to create a frame which takes two integers and display the sum of two integers using button events.   [4+4]
                                    OR
11.a) What is delegation event model? Explain in detail.
   b) Write an applet program to draw an oval.   [4+4]