1507

MCA 2nd Semester Examination

Object Oriented & Visual Programming Using Java

MCA-202

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

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt any one question from section A, B, C and D. Section E is compulsory.

SECTION - A

1. What do you mean by class and an object? Explain the various data types of Java.   **(12)**

2. How strings are handled in JAVA? Write a program to reverse a string without using string inbuilt functions.   **(12)**

SECTION - B

3. What do you mean by package and interface? Explain the procedure to handle multiple inheritance through interfaces with an example.   **(12)**

4. Explain the various types of exceptions with an example of each.   **(12)**

SECTION - C

5. Explain the procedure to implement various operations of multi threading in JAVA with an example.   **(12)**

6. What do you mean by byte and character structure? Write a program to read the name of student and display the total number of characters in it.   **(12)**

SECTION - D

7. What is the use of AWT? What do you mean by AWT classes? Write a program to work with frame in APPLET.   **(12)**

8. (a) What is the difference between checkbox, choices and list.

    (b) Explain the procedure to add and remove AWT control with a program.   **(12)**

SECTION - E

9. (a) What is the use of Label?

    (b) How tag parameter is passed to applet?

    (c) What do you mean by deadlock?

    (d) What do you mean by thread priorities?

    (e) What do you mean by classpath?

    (f) Name any three standard packages.

    (g) What do you mean by access protection in packages?

    (h) What is the difference between public and protected members?

    (i) What do you mean by object reference variable?

    (j) What is the use of this variable?

    (k) What is the use of eclipse?

    (l) What do you mean by byte code?   **(12×1=12)**