

Roll No.

Total Pages : 03

MCA/M-17

10011

PROGRAMMING IN JAVA

MCA-14-41

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. Explain the following with suitable Java code :
- (a) Final, Finally, Finalize
 - (b) Constructor Overloading
 - (c) Polymorphism
 - (d) Wrapper Class
 - (e) Thread Priority and Synchronous
 - (f) Layout Managers
 - (g) Adapter Class
 - (h) Menu.

Unit I

2. (a) WAP to find the sum of 10 elements of an array using package.
- (b) WAP for concatenation of two strings.

3. Write Java code to find the area of rectangle using the concept of (a) function overloading, (b) function^s over-riding, (c) static class.

Unit II

4. Can a Code Fire more than two exceptions ? Justify your answer. Write program to handle your own exception.
5. What is Multithreading ? Discuss Thread Life-cycle with Java code.

Unit III

6. What is Applet Life cycle ? Write Applet Code to find the sum of two integers entered in two textFields T1, T2 and the result must be visible in third textField.
7. What are different stream classes ? Write a java programme to copying characters from one file into another file.

Unit IV

8. (a) Write Applet Code to show the status of mouse movement.

- (b) Demonstrate different Layouts using suitable java codes.
9. (a) Write program to swap the value of textFields t1 and t2 while pressing the Button B.
- (b) Write applet code to draw the following graphics :

