Reg. No.: ....

Name: ....

Third Semester M.C.A. Degree (Regular/ Supplementary/Imp.) Examination, January 2017
MCA 3C14 – PROGRAMMING IN JAVA
(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions, **each** question carries **three** marks.

1. What are the basic concepts of OOP ?

2. Mention the applications of Java-applets.

3. Compare and contrast static and dynamic access specifier.

4. Discuss the importance of user defined packages.

5. What are the uses of this Keyword ?

6. Mention the uses of multithreading.

7. Distinguish the importance of various classes of Input and Output Stream.

8. How the Java application is different from Java Applet ?

9. What are the functions of component and container ?

10. Mention the important methods of AWT classes.

11. How to establish the database connectivity using JDBC ?

12. What are the limitations of event classes ?

(10×3=30)

P.T.O.

SECTION – B

Answer **all** questions, **each** question carries **ten** marks.

13. a) Describe briefly various methods of Java Applet programming.   **10**

OR

b) Describe the steps of writing and executing Java programming with suitable examples.   **10**

14. a) Explain the string handling functions with suitable examples.   **10**

OR

b) Discuss the method of overloading and method of overriding with suitable examples.   **10**

15. a) Define multithreading. Explain the implementation of multithreading with suitable examples.   **10**

OR

b) Mention four important methods of input and output streams of Java programming. Explain at least two methods in each other.   **10**

16. a) Explain the working of graphics with suitable applet methods.   **10**

OR

b) Discuss the various classes and methods of AWT.   **10**

17. a) Explain the exception handling importance in Java Programming with suitable examples.   **10**

OR

b) Explain the JDBC architecture and various devices of JDBC.   **10**

(5×10=50)

P.T.O.