MCA-16/M.Sc(IT)-13
PROGRAMMING IN JAVA

Master of Computer Applications/

Master of Science in Information Technology

(MCA/MSc.IT-11/12/16/17)

Fourth Semester, Examination-2020

Time Allowed : 2 Hours   Maximum Marks : 80

Note : This paper is of Eighty (80) marks divided into Two (02) sections A and B. Attempt the question contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer Type Questions)

Note : Section-'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.   (2×20=40)

1. Explain the various usage of static and final keywords in Java.

2. Explain the various levels of access protection available for packages and their implications.

3. What is Inheritance? Explain the different forms of Inheritance in Java.

4. What do you mean by a Java applet? How is an applet different from an application?

5. Explain the following :

   (a) Java Token   7

   (b) Polymorphism   7

   (c) JDBC   6

Section-B

(Short answer type questions)

Note: Section-B Contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only.   (4×10=40)

1. Explain the major benefits of object oriented programming. Name a Few languages that support oop paradigm other than Java.

2. Explain the various kinds of loop statements supported by Java language with suitable example.

3. Explain the working of the exception Handling mechanism in Java.

4. Differentiate between swing and AWT Component?

5. What are operators? Explain relational and logical operators in Java.

6. What is method overloading? How is it different form method overriding?

7. Explain the 2-tier and 3-tier client server model.

8.   Write short notes on the following :

(a)   Interface.

(b)   Abstract class.

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