

C1030

Total Pages : 3

Roll No.

MSC-508

Programming in Java

(MSCIT-21/MCA-20)

4th Sem./2nd Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions 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. What is object oriented programming and explain key attributes of oops ?
2. What is thread and explain life cycle of thread with an example?

3. Explain the concept of URL and URL connection class with example.
4. What is GUI in Java and discuss the various methods available in Graphics class?
5. Explain following :
 - (a) Swing.
 - (b) Abstract Data Type (ADT).
 - (c) Streams and Files.
 - (d) String and StringBuffer.
 - (e) Control Structures.

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. Write a Java program to implement the Fibonacci series using for loop control structure.
2. Explain the following terms with respect to exception handling.
 - (a) try.
 - (b) catch.

- (c) throw.
 - (d) finally.
3. Explain the following methods related to thread :
- (a) wait().
 - (b) sleep().
4. Explain packages and write steps to create and access user defined packages.
5. Explain Logical (Boolean) operators in JAVA with example.
6. Write a program to find average of all the numbers stored in an array.
7. Explain types of inheritance with example.
8. What is Swing in JAVA? Explain hierarchy of swing classes.
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