

A-840

Total Pages : 3

Roll No.

MCS-508

MCA/MSCIT

(Programming in Java)

2nd/4th Semester Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section-A

(Long Answer Type Questions) 2×19=38

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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(1)

P.T.O.

1. What is object-oriented programming ? Explain the object-oriented features of Java in detail with the help of examples.
2. What are the various looping statements available in Java ? Discuss with suitable examples.
3. What is the difference between a class and interface ? Write a program to illustrate the implementation of multiple inheritances through interfaces.
4. (a) What do you understand by console Input/Output ? How is it incorporated in a Java program ?
(b) Write a program in Java, which will read a text and count all occurrences of a particular word.
5. What is Internet addressing ? Explain the role of internet addressing in Java.

Section–B

(Short Answer Type Questions) 4×8=32

Note :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Explain the concept of polymorphism with the help of a program.
2. Describe the various data types used in Java with suitable examples.
3. Define Package. What are the different types of packages used in Java ?
4. Define Array. Write a program to sort an array in descending order.
5. What is Inter Thread Communication ? How do you communicate between two threads ?
6. Define different string operations used in Java.
7. Explain how you create user interface in Java.
8. Write short notes on :
 - (a) Encapsulation
 - (b) Expressions
 - (c) Synchronization
 - (d) TCP/IP sockets
