SEM–1002

M.Sc. (Lateral Entry) (Ist Semester) Examination, 2022

COMPUTER SCIENCE

Paper – FS–Comp–MCSLE–CC–102

(Java)

Time : 3 Hours]   [*Maximum Marks : 40*

The question paper contains three Sections.

Section–A   **(Marks : 1 × 10 = 10)**

Note :–   Answer all *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section–B   **(Marks : 3 × 5 = 15)**

Note :–   Answer any *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries **3** marks.

Section–C   **(Marks : 5 × 3 = 15)**

Note :–   Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries **5** marks.

Section–A

1.   Attempt all questions. Answers should not exceed **50** words in each question.

    (i)   Explain the constants in Java.

(ii)   How does instance variable work in Java ?

(iii)   Briefly explain about data type casting.

(iv)   What is use of super keyword in Java ?

(v)   What is Java Object ?

(vi)   How the Array works ? Explain in short.

(vii)   Write any *five* features of Java.

(viii) How the input takes in Java ?

(ix)   What is Enumeration in Java ?

(x)   What is API in Java ?

Section–B

Note :–   Answer any *five* questions in about **200** words, by selecting at least *one* question from each Unit. Each question carries **3** marks.

Unit–I

2.   Differentiate the C and C++.

3.   How we perform overloading in Java ? Explain with example.

4.   Explain Java Program Structure with example.

Unit–II

5.   Explain Abstract Close with example.

6.   Why we use interface in Java ?

7.   What is Final Class X ? Why we use Final Keyword ?

Unit–III

8.   Explain the thread synchronization.

9.   What is implementing the runnable interface ?

10. Write a program for 'Command Line Argument' in Java.

Section–C

Note :– Answer any *three* questions in this Section, by selecting *one* question from each Unit in about **500** words. Each question carries **5** marks.

Unit–I

11. Define the looping statement in Java with example.

12. Explain the following :

   (a)   Constructor with example

   (b)   Class and Object with example

Unit–II

13. Define with example :

   (a)   Vector

   (b)   String

14. Explain all visibility control in Java.

Unit–III

15. Explain the life cycle of thread in Java.

16. What is Exception Handling ? Explain with an example.