

B.Sc Semester-V (Programme) Examination, 2021

COMPUTER SCIENCE (PROGRAMME)

Course ID: 51518

Course Code: SP/CSC/501/DSE-1A

Course Title: Programming in JAVA

Time: 1hr 15 minute

Full Marks: 25

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

The questions are of equal value.

1. Answer any **five** question: 1×5=5
 - a) What is java interface?
 - b) What is java thread?
 - c) Why is java known as platform neutral language?
 - d) When do we declare a method or class final?
 - e) What is a remote applet?
 - f) List down two major C++ features that were removed from java.
 - g) What is class?
 - h) What is overloading?

2. Answer any **two** questions. 5×2=10
 - a) How does a vector differ from an array? Write a java program which will read a text and count all occurrences at a particular word. 1+4=5
 - b) Describe the complete life cycle of a thread in java. 5
 - c) Explain object oriented concepts in java. 5
 - d) Explain with example about constructor overloading in JAVA. 5

3. Answer any **one** question: 10×1=10
 - a) List and explain various character stream classes in JAVA. Write a program in Java to add first 10 natural numbers. 4+6=10
 - b) What do you mean by JAVA virtual machine? Develop a standalone java program for multiple inheritance. What are the similarities between interface and class? 2+6+2 =10

