

THIRD SEMESTER B.Sc. DEGREE (NEP) EXAMINATION, FEBRUARY 2023

Computer Science

DSCC—OBJECT ORIENTED PROGRAMMING USING JAVA

Time : Two Hours

Maximum : 60 Marks

Answer all sections as per internal choices.

Section A

I. Answer any *five* questions. Each question carries 2 marks :

1. What is Java? Who developed Java?
2. Define class and object.
3. Write the purpose of super key word.
4. What is package? List any four built in packages in Java?
5. Expand JBM and AWT.
6. What is Java applet? Write any two uses of it.

(5 × 2 = 10 marks)

Section B

II. Answer any *four* questions. Each question carries 5 marks :

7. Explain looping control structures in Java.
8. Discuss string handling functions in Java.
9. Explain applet life cycle.
10. Write a Java Program to display the prime numbers reading N as command-line arguments.
11. Explain any five GUI components in Java.

(4 × 5 = 20 marks)

Turn over

Section C

III. Answer any *three* questions. Each question carries 10 marks :

12. (a) Discuss arithmetic, relational and logical operators in Java.

(6 marks)

(b) Explain arrays in Java.

(4 marks)

13. What is constructor? Explain its types.

(6 marks)

14. (a) Explain method overloading in Java with example.

(4 marks)

(b) Explain super class and subclass in Java with example.

15. What is exception? Explain with try, catch and finally keywords.

(3 × 10 = 30 marks)