## 2021

Time: 3 hours

Full Marks: 50

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

The figures in the margin indicate full marks.

Answer from all the Parts as directed.

## Part - A

- 1. Choose the correct option in each of the following :  $1 \times 5 = 5$ 
  - (i) Which of the following is not a Java feature?
    - (a) Dynamic
    - (b) Architecture Neutral
    - (c) Use of pointers
      - (d) Object-oriented
  - (ii) The size of char data type in JAVA is :
    - (a) One byte

(b) Two bytes
(c) Four bytes
(d) None of these
(iii) When is the object created with new keyword?
(a) At run time
(b) At compile time
(a) Both (a) and (b)
(d) None of these
(iv) A package in JAVA is a collection of:
(a) Classes
(b) Interfaces
(c) Classes and interfaces
(d) None of these
(v) A Thread can be blocked by:
(a) wait ()
(b) sleep () sawolo and lo nonverse
(c) suspend ()
(d) All of these
2. State whether the statements are TRUE or FALSE: 1×5 = 5
(i) Java programming provides the facility of

- (ii) The wrapping of data and methods into a single unit is called inheritance. F
- (iii) Java compiler convert the Java source code into bytecode. T
- (iv) Finally block in exception handling is executed only when an exception is handled.
- (v) An applet is a JAVA program embedded in a webpage that runs in Web browser.

## Part - B

Answer any four questions in about 200 words each:  $3\times4 = 12$ 

- 3. Write briefly about the data types in JAVA.
- Write short note on break and continue statements.
- Explain different types of access modifiers in JAVA.
- 6 Explain constructors with an example.
  - Briefly explain Method Overloading with an example.
    - 8. Write a program to calculate the factorial of a number entered by the user.

## Part - C

Answer any **four** questions in about **500** words each:  $7\times4=28$ 

- 19. Enumerate salient features of Java.
  - 10. What is Inheritance? Explain types of Inheritance in JAVA.
  - 11. Explain exception handling in JAVA with suitable example.
- What is a Thread? Describe the life cycle of a Thread with a block diagram.
- 13. Explain String in JAVA. Enumerate any three methods of String and String Buffer class each with their function.
- How applet differs from standalone application?
  Wrtie a program to display how an applet is embedded in a HTML file.

WS - 8/2 (500)

(4) BCA(Sem-II) — CC – 3

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