44 (5) BCA-HC-5016

2023

JAVA PROGRAMMING

Paper: BCA-HC-5016

Full Marks: 60

Time: Three hours

The figures in the margin indicate full marks for the questions.

- 1. Briefly answer the following: (any ten)

 2×10=20
 - (a) Differentiate between Java and C++.
 - What do you mean by constructor overloading?
 - (g) / What are Final variables and methods?
 - (d) What are Zagged arrays?
 - (e) What are Vectors in Java? What is its purpose?
 - (f) Explain the term polymorphism.

(9) What is an abstract class?

(h) Why is Java called platform independent?

What is Java virtual machine?

- What is a Package? What is the use of Packages in Java?
 - (k) Explain Destructor.
- What are different types of errors?
 - (m) What are Byte Codes?
- 2. Answer any four questions: 5×4=20
 - What is object-oriented programming?
 Discuss the basic concepts of objectoriented programming.
 - (b) What are the various looping statements available in Java? Discuss any one with suitable example.
 - (c) What are the various primitive data types available in Java? Also specify memory requirements and range of each.
 - (d) Explain the exception handling mechanism of Java. Name a few exception handling classes.

What are classes and objects? How are classes and objects created in Java? Explain with syntax and example.

- 3. Answer any two questions: 10×2=20
 - (a) Create a Date class in Java having day, month and year data members. Create constructors for initializing data members, functions for validating date, getting values of data members and displaying the date.
 - (b) Define an Applet. How is an Applet different from an application? Describe the lifecycle of an applet.
 - (c) Explain with examples, the various graphics methods supported by AWT. How can color of an object be changed?
 - What are packages? How are packages created and implemented in Java? Explain in detail with syntax and example.

