(2x10x20)

END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY JUNE, 2025 Paper Code: BCA-202 Time: 3 Hours Subject: Java Programming (2021 Onwards)

Note: Attempt five questions in all including Q.No1 which is compulsory. Maximum Marks: 60

- Q1 Answer the following:(
 - (a) What are the key differences between Java and C++?

 - (b) Explain different types of access specifiers available in Java? (c) Explain the features of Java. 2
 - (d) How Garbage Collection is achieved in Java?
 - (e) State the purpose of Static block. x
 - (f) Explain checked and unchecked exceptions.)
 - (g) Explain Adapter Class.
 - (h) What is the use of Super and final keyword?
 - (i) Differentiate abstract class and interface. 2
 - (j) What is the difference between int and integer.

Unit -I

- Q2 (a) What is a constructor? Write a program to show constructor 4 overloading. (b) Write a program to show 5 string methods. What is a String Buffer
 - class?
- Q3 Explain Java architecture in brief. What are the types of applications in Java?

Unit -II

- Q4 (a) What is inheritance? Write a program to show multilevel inheritance.(5)4 (b) Explain the usage of interface in Java? Give an example of a class (5) 7 which implements interface.
- Q5 (a) What is package? How to use two different packages in a Java class? Give example. (5) (b) Explain exception handling with suitable example. Differentiate between throw and throws? (5)

Unit -III

- Q6 (a) What are the byte and character streams in file handling? (5) (b) Write a program to read and write the content of a file in text mode. (5)
- Q7 Explain the life cycle of Thread and methods to implement thread with
- (10) 7 suitable code.

Unit -IV Q8 (a) Create a login form using Swing Controls.

- (5) (b) What are the different types of Layout Managers? (5)
- Q9 Explain the JDBC Architecture. What is JDBC Driver and Connection (10) statement?
