

Roll No.

Paper Code - BCA 5002

BCA 3<sup>rd</sup> Year (Semester-V) EXAMINATION, 2023-24

JAVA PROGRAMMING AND DYNAMIC

WEBPAGE DESIGN

Paper-II

Time : Two Hours]

[Maximum Marks : 75

**Note-** This paper consists of three Section A, B and C.

Carefully read the instructions of each Section in solving the question paper. Candidates have to write their answers in the given answer-copy only. No separate answer-copy (B Copy) will be provided.

### Section-A

#### (Short Answer Type Questions)

**Note-** All questions are compulsory. Answer the following questions as short answer type questions. Each question carries 5 marks.

1. (A) Define classes and objects in Java.  
(B) What is the difference between method overloading and method overriding ?  
(C) Define interface in Java.  
(D) WAP in java to convert upper case string to lower case string and lower case string to upper case string.  
(E) What is exception handling in java ?  
(F) What is an interface in java ?  
(G) What is AWT ?  
(H) What is session tracking ?  
(I) What is the difference between doGet() and doPost() method ?

### Section-B

#### (Long Answer Type Questions)

**Note-** This section contains four questions from which one question is to be answered as long question. Each question carries 15 marks.

2. What is the difference between an application and an applet ? Explain the life cycle of an applet. What are the basic steps of creating an applet ?

(Or)

3. What is Layout Manager ? Define all types of Layout Manager.

(Or)

4. Define Event, Event Source, Event Object and Event Listener ? Also define *Event Delegation*.

(Or)

5. What is package ? Write a program to implement user defined packages in terms of creating a new package and importing the same.

7. Explain all JDBC drivers with example.

(Or)

8. What is Servlet ? Define the types of servlet. Explain the life cycle of servlet.

(Or)

9. What is java server page technology ? Why do we need jsp technology if we already have servlets ?

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### Section-C

#### (Long Answer Type Questions)

**Note-** This section contains four questions from which **one** question is to be answered as long question. Each question carries 15 marks.

6. What is a Thread ? Which interface implemented by all Thread ? What are the ways to create a Thread ?

(Or)