

BCA-502(N)

**B. C. A. (Fifth Semester)
EXAMINATION, 2022-23**

Paper Second

**JAVA PROGRAMMING AND
WEBPAGE DESIGN**

Time : Two Hours] [Maximum Marks : 75

Note : This paper consists of three Sections 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) What is the difference between JDK and JRE ?

- (B) What is the difference between method overloading and method overriding ?
- (C) What is the purpose of package in Java ?
- (D) What is the exception handling in Java ?
- (E) What is the priority of a thread and how it is used in scheduling ?
- (F) What is the role of HTML in applet ?
- (G) WAP in java to display 10 student's name and roll no. using an array.
- (H) What is AWT ?
- (I) What is java server page technology ?

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. (a) Describe different forms of inheritance with example.
- (b) Discuss the various levels of access protection available for packages and their implications.

Or

3. An election is contested by 5 candidates. The candidates are numbered 1 to 5 and the voting is done by marking the candidate number on the ballot paper. Write a program to read the ballots and count the votes cast for each candidate using an array variable count. In case, a number read is outside the range 1 to 5, the ballot should be considered as a 'spoilt ballot' and the program should also count the number of spoilt ballots.

Or

4. (a) What is Layout Manager ? What is the default layout for an applet, frame and panel ? <https://www.csjmuonline.com>
 (b) What is event, event source and event listener ?

Or

5. (a) What is hypertext link ? What is the method to link to specific place within the same document ?
 (b) Define Java.net package in detail.

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. Explain JDBC drivers with example.

Or

7. (a) Explain the life cycle of servlet.
 (b) What are the types of servlet ?

Or

8. (a) What is Java server page actions ? Why do we need ISP technology if we already have servlet ?
 (b) What do you mean by ISP session ?

Or

9. Discuss various AWT containers with example.