

Section-C

(Long Answer Type Questions)

Note : Attempt **only one** questions from the following. Each question carries **15** marks. [15×1=15]

6. What is Layout manager? What is the default layout for an applet, frame and panel?
7. What is the role of JDBC? Explain the architecture of JDBC.
8. What do you mean by Servlet and what are the characteristics of servlets? Also explain the life cycle of servlet.
9. What is the syntax of JSP technology? What do you mean by Session Tracking? Why do we need JSP technology if we already have servlets?

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Roll No. :

Total No. of Questions : 9] [Total No. of Printed Pages : 4

BCA-5002

BCA (Semester-V) (NEP) Examination, 2024-25

(Major)

COMPUTER APPLICATION

[Paper : Second]

(Java Programming and
Dynamic Webpage Design)

Time : 2 Hours]

[Maximum Marks : 15

Note : 1. This paper consists of three Sections A, B and C. Attempt questions from all Sections as directed.

2. The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

3. "B" copy will not be provided.

Section-A

Short Answer Type Questions

Note : Attempt **all** questions. Each question carries **5** marks.

[9×5=45]

1. (a) What is the difference between C++ and Java?
- (b) Explain public static void main .
- (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) How do you define try/catch block?
- (f) What is the difference between process and thread?
- (g) What is AWT?
- (h) What is the difference between HTTPServlet and GenericServlet?
- (i) What do you mean by JSP session?

Section-B

(Long Answer Type Questions)

Note : Attempt **only one** questions from the following. Each question carries **15** marks. [15×1=15]

2. Write short notes on the following :
 - (a) Polymorphism
 - (b) Inheritance
 - (c) Class
 - (d) Object
3. Create an applet containing three buttons red, green and blue .The background color is initially set white. Depending on button pressed, the background color should change accordingly .
4. Define Event, Event Source, Event Object and Event Listener. Also define Event Delegation .
5. How to create multithreaded programming ? Explain different ways of using thread ? When a thread is created and started ,what is its initial state ?