A
(20222)

(Printed Pages 4)

Roll No. ....

B.C.A.-V Sem.

18022 (CV-III)

B.C.A. Examination, Dec.-2021

JAVA PROGRAMMING AND DYNAMIC

WEBPAGE DESIGN

(B.C.A.-502)

Time : 1½ Hours]　　　　[Maximum Marks : 75

Note : Attempt questions from **all** sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt any **two** questions. Each question carries **7.5** marks. Very short answer is required not exceeding **75** words.

2×7.5=15

1. Explain the features of Java.

2. What is type casting? Give an example to explain it.

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3. Explain destroy() method, a stage in the life cycle of an applet.

4. What do you mean by a package in Java?

5. State the different access specifiers available in Java.

Section-B

(Short Answer Questions)

Note : Attempt any **one** question out of the following **three** questions. Short answer is required not exceeding **200** words. Each question carries **15** marks.

1×15=15

6. Write a code in Java to generate single calculator using classes and accepting the two integers and operator with all methods to input, display, add, subtract, product, and division.

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7. What is Exception? Give different types of exception that could occur during run-time. Why to handle exception?

8. What are the life-cycle methods for a JSP? What are the differences between the JSP custom tags and Java beans?

Section-C
(Detailed Answer Questions)

Note : Attempt any **two** questions out of the following **five** questions. Answer is required in detail. Each question carries **22.5** marks.   2×22.5=45

9. What are Servlets? What are the advantages of Servlets over CGI? Explain working of service ( ) method of a servlet with examples.

10. Write a method in Java that takes two integer arguments and returns power of it. Suppose X and Y passing as an argument then it returns X to power Y offer calculation.

11. What is thread priority? Write are the default values? Write a program to define two threads. One thread will print 1 to 10 no. whereas other will print 10 to 1 nos.

12. What is JDBC? List out JDBC components and types of drivers. Write difference between Java applet program and Java application program.

13. What is package? What are the benefits of package? Explain Java API packages. List out any five methods of string class by giving an example.