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(21225) Roll No.

B.C.A.-V Sem.

18022

B.C.A. Examination, Dec.-2025

Java Programming and Dynamic

(Webpage Design)

(B.C.A.-502)

Time : Three Hours] *[Maximum Marks : 75*

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

Section - A

Note : Attempt **all** questions. Each question carries 3 marks. Very Short Answer is required. 3×5=15

1. Why is Java called machine independent language.
2. Explain the functionality of JVM.
3. What are the advantages of Java Swings. Over Java Applies.

P.T.O.

4. What is the difference between process based and thread-based multitasking?
5. Explain the 'Super' keyword.

Section-B

Note : Attempt any **two** questions. Out of these following three questions. Each question carry 7.5 marks. 7.5×2=15

6. What is an exception? How to handle multiple exception and use finally blocks.
7. Describe life cycle of Applet.
8. Explain Thread and how many ways to create thread in Java.

Section-C

Note : Attempt any **three** questions out of these following five questions. Each question carries 15 marks. 15×3=45

9. Illustrate Inheritance. Why multiple inheritance is not possible in Java? How to implement multiple inheritance in Java?

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10. Create an HTML code to create a web page that contains the user registration form with following details user name, user date of birth, user address, user gender, user email-id, user mobile number.

11. Describe Servlet. Explain types of servlet. Given an example of Http servlet. Write steps to execute the servlet.

12. Justify the difference between Servlets and jsp and explain the components of JSP and the jsp processing, scriptlet tag.

13. Write short notes on (any **two**):
    (a) Constructors and finalizers
    (b) Method Overloading and method overriding
    (c) Super keyword and final modifier.

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