



Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16,
NEP 2020 (Autonomous)
End Semester Examination: MAR/APR 2025

Total No. of Questions: 4/18

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S.Y. B.C.A. (Science)
BCA24101:Core Java
(Semester IV)

Program: BCA
Program Specific: BCA(Science)
Course Type: MC
Paper: 1

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Answer the following

[5 * 1 = 5]

- a) Define encapsulation.
- b) State the syntax to declare a 2D array.
- c) List any two checked exceptions.
- d) Distinguish between JTextField and JTextArea in Swing
- e) List any two layout managers in Swing.

Q2) Answer the following (Attempt any 5/7)

[5 * 2 = 10]

- a) Explain toString() method in java .
- b) Describe any one type of inheritance.
- c) Distinguish between abstract classes and interfaces.
- d) State the purpose of using a BufferedWriter in file handling.
- e) Describe the role of the ActionListener interface in event handling.
- f) State the syntax for defining an interface in Java. Give an example.
- g) Write the syntax of try and catch block.

Q3) Answer the following/Write short notes on following (Attempt any 2/4)

[2 * 5 = 10]

- a) Discuss the MVC architecture in Swing
- b) Explain String class with its methods.
- c) Explain the concept of method overloading with examples.
- d) Write a java AWT program to accept userid and Password. Use appropriate layout and components.

Q4) Answer the following (Attempt any 1/2)

[5 * 5 = 5]

- a) Write a program to demonstrate the use of the super keyword.
- b) Explain exception handling with multiple catch blocks using an example.
