

(6 pages)

Reg. No. :

Code No. : 20651 E Sub. Code : EMCA 41

B.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2025.

Fourth Semester

Computer Application – Core

JAVA PROGRAMMING

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of these is not a bitwise operator?
(a) &
(b) &=
(c) |=
(d) <=

2. Which of these is an incorrect array declaration?
(a) `int arr[] = new int[5]`
(b) `int[] arr new int[5]`
(c) `int arr[] = new int[5]`
(d) `int arr[] = int [5] new`
3. Which of these keywords is used to define packages in Java?
(a) `pkg` (b) `Pkg`
(c) `package` (d) `Package`
4. Which of these access specifiers can be used for a class so that its members can be accessed by a different class in the different package?
(a) `Public` (b) `Protected`
(c) `Private` (d) `No Modifier`
5. Which of these method is used to implement `Runnable` interface?
(a) `stop()` (b) `run()`
(c) `runThread()` (d) `stopThread()`

6. Which of these packages contain classes and interfaces used for input and output operations of a program?
(a) java.util (b) java.lang
(c) java.io (d) all of the mentioned
7. Event class is defined in which of these libraries?
(a) java.io (b) java.lang
(c) java.net (d) java.util
8. Which of these methods are used to register a keyboard event listener?
(a) KeyListener()
(b) addKistener()
(c) addKeyListener()
(d) eventKeyboardListener()
9. Which language is used in the swing framework?
(a) JavaScript (b) Java
(c) React (d) Python
10. _____ control is a dialogue window that allows the user to pick a file?
(a) JChoosFile (b) JFilefield
(c) JFile (d) JFileChooser

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Explain If statement in Java.
Or
(b) Explain array creation in Java.
12. (a) What is Interface in Java?
Or
(b) Define method overriding in Java.
13. (a) Write a Java Program to implement Thread class.
Or
(b) Explain the Runnable interface in Java.
14. (a) Discuss about AWT class hierarchy.
Or
(b) Explain Adapter class in Java.
15. (a) Write a Java Program to implement JDialog swing components.
Or
(b) How do you create JcomboBox in Java swing?

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 600 words.

16. (a) Write about array classes in Java.

Or

(b) Illustrate static data and static method in Java.

17. (a) What is Inheritance? How it is implemented in Java?

Or

(b) Create and use package in java.

18. (a) Discuss about I/O stream class in java.

Or

(b) How will you implement deadlock in Java?

19. (a) Explain AWT checkbox and colour with example.

Or

(b) Explain Mouse events in Java.

20. (a) Explain the following Java swing components
(i) JDialog (ii) JFrame. .

Or

(b) How do you implement swing JLabel and Jradio button? Explain.
