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Reg. No. : .....

**Code No. : 20504 E      Sub. Code : CMCA 31**

B.C.A. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2023.

Third Semester

Computer Applications – Core

JAVA PROGRAMMING

(For those who joined in July 2021-2022 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which data type is used for logical values?

- (a) Short
- (b) Character
- (c) Boolean
- (d) Logical

2. Which of the following is modulus operator?

- (a) ~                      (b) ^
- (c) <<                    (d) %

3. Which of the following implements polymorphism?

- (a) Method overloading
- (b) Method overriding
- (c) Final
- (d) Finally

4. Which keyword is used to inherit a class?

- (a) Implements
- (b) Interface
- (c) Extends
- (d) Import

5. Which statement is used to bring packages to visibility?

- (a) implements              (b) interface
- (c) extends                  (d) import

6. All exceptions are subclasses of the built-in class

- (a) Throws                  (b) Throwable
- (c) Throw                    (d) Runnable



7. Which method is used to display message in Status Window?

- (a) showStatus()
- (b) display()
- (c) paint()
- (d) repaint()

8. Which method should be always called before destroy()?

- (a) init()
- (b) start()
- (c) stop()
- (d) paint()

9. Which control allows multiple selection?

- (a) Choice
- (b) List
- (c) Button
- (d) Label

10. Which of the following is not an AWT control?

- (a) Frame
- (b) Label
- (c) Check box
- (d) Scroll bar

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PART B — (5 × 5 = 25 marks)

Answer ALL questions by choosing (a) or (b).

Each answer should not exceed 250 words.

11. (a) Illustrate type conversion and casting in Java.

Or

(b) List the bitwise operators in Java with example.

12. (a) Write a note on recursion.

Or

(b) Write a note on dynamic method dispatch.

13. (a) Express the use of try and catch with an example.

Or

(b) Write a note on thread priorities.

14. (a) Write a note on Inet address.

Or

(b) Give the life cycle of an applet.

15. (a) Write an Applet to display a blue circle and a red square.

Or

(b) Compare Text Field and Text Area.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions by choosing (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write a Java program to input your name and display "Hello, Name".

Or

- (b) Explain the control statements in Java.

17. (a) Describe constructor overloading.

Or

- (b) Write a Java program to implement multilevel hierarchy.

18. (a) List any four Java built-in exceptions and give their descriptions.

Or

- (b) Write a Java program to show suspending, resuming and stopping threads.

19. (a) Discuss Networking classes and Interface.

Or

- (b) Write Java applet for mouse event handling.

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20. (a) Briefly explain working with frame windows.

Or

- (b) Create an application in Java with a Menu bar and menus.

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