Reg. No. : ....

Code No. : 20450 E   Sub. Code : AMCA 31

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2021.

Third Semester

Computer Application — Core

JAVA PROGRAMMING

(For those who joined in July 2020 onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answers :

1. What is the range of short data type in Java?

    (a) −128 to 127

    (b) −32768 to 32767

    (c) −2147483648 to 2147483647

    (d) None of the mentioned

2. Modulus operator, %, can be applied to which of these?

    (a) Integers

    (b) Floating – point numbers

    (c) Both integers and floating – point numbers

    (d) None of the mentioned

3. Which of the following is a valid declaration of an object of class Box?

    (a) Box obj = new Box( );

    (b) Box obj = new Box;

    (c) obj = new Box( );

    (d) new Box obj;

4. Using which of the following, multiple inheritance in Java can be implemented?

    (a) Interfaces

    (b) Multithreading

    (c) Protected methods

    (d) Private methods

5. Which of the following is an incorrect statement about packages?

    (a) Package defines a namespace in which classes are stored

    (b) A package can contain other package within it

    (c) Java uses file system directories to store packages

    (d) A package can be renamed without renaming the directory in which the classes are stored

6. What is multithreaded programming?

    (a) It's a process in which two different processes run simultaneously

    (b) It's a process in which two or more parts of same process run simultaneously

    (c) It's a process in which many different process are able to access same information

    (d) It's a process in which a single process can access information from any sources

7. Which of these package contains classes and interfaces for networking?

    (a) java.io   (b) java.util

    (c) java.net   (d) java.network

8. Which of these packages contains all the event handling interfaces?

    (a) java.lang   (b) java.awt

    (c) java.awt.event   (d) java.event

9. By which method you can set or change the text in a label?

    (a) setText( )   (b) getText( )

    (c) Both (a) and (b)   (d) None of the above

10. Which is a component in AWT that can contain another components like buttons textfields, labels etc.?

    (a) window   (b) container

    (c) panel   (d) frame

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b) not exceeding 250 words.

11. (a) Write short notes on literals.

                    Or

    (b) Explain bitwise operators with an example.

12. (a) Describe recursion with an example.

Or

(b) Write short notes on method overloading.

13. (a) Discuss: package.

Or

(b) Define synchronization in thread.

14. (a) Write short notes on Inet address.

Or

(b) Describe delegation event model.

15. (a) Discuss graphics used in AWT.

Or

(b) Explain labels and check boxes used in AWT.

PART C — (5 × 8 = 40 marks)

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

16. (a) Explain briefly about data types used in java.

Or

(b) Discuss arrays in detail.

17. (a) Define constructor overloading with an example.

Or

(b) Give detail note on inheritance.

18. (a) Discus exception handling in detail.

Or

(b) Define multithreading with an example.

19. (a) Write briefly about URL.

Or

(b) Give detail description about event listener interfaces.

20. (a) Explain briefly about frame windows.

Or

(b) Discuss menus used in AWT.

——————