

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

Third Semester

Computer Science — Core

JAVA PROGRAMMING

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following option leads to the portability and security of java?
(a) Byte code is executed by JVM
(b) Use of exception handling
(c) Dynamic binding between objects
(d) None

2. Identify the keyword among the following that makes a variable belong to a class, rather than being defined for each instance of the class
(a) final (b) static
(c) volatile (d) abstract
3. Identify the correct definition of a package —
(a) A package is a collection of editing tools
(b) A package is a collection of classes
(c) A package is a collection of classes and interface
(d) None
4. When an array is passed to a method, what does the method receive?
(a) the reference of the array
(b) a copy of the array
(c) length of the array
(d) none
5. Exception created by try block is caught in which block —
(a) catch (b) throw
(c) final (d) none

6. It is a process in which two or more parts of same process run simultaneously _____ programming.
(a) exception handling
(b) multi threaded
(c) thread based
(d) none
7. Which of these functions is called to display the output of an applet? —
(a) display (b) paint
(c) display applet() (d) print applet()
8. _____ method is used to initialize an applet.
(a) init() (b) start()
(c) destroy() (d) stop()
9. Which of these packages contains all the classes and methods required for event handling in Java? —
(a) java.applet (b) java.awt
(c) java.event (d) java.awt.event
10. What is the abbreviation of AWT? —
(a) Applet Windowing ToolKit
(b) Abstract Windowing ToolKit
(c) Absolute Windowing ToolKit
(d) None

PART B — (5 × 5 = 25 marks)

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

11. (a) Differentiate : overloading versus overriding.
Or
(b) Tabulate various access specifier available in Java.
12. (a) Define array. How to create two dimensional array?
Or
(b) Write short note on naming conventions in Java.
13. (a) What do you mean by custom exception?
Or
(b) What are the different types of errors available? Explain any two.
14. (a) How to build an applet?
Or
(b) How to run an applet?

15. (a) Write short note on AWT packages.

Or

(b) How to draw circle?

PART C — (5 × 8 = 40 marks)

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

16. (a) Define class. Give a brief note on method declaration and creating objects.

Or

(b) Illustrate extending class with an example.

17. (a) Define interface. How to implement it in java.

Or

(b) How to create package in Java? Explain with an example program.

18. (a) What is exception? How to handle exception?

Or

(b) What do you mean by thread? How to stop and block a thread?

19. (a) Illustrate applet life cycle and applet tag in detail.

Or

(b) How to design a web page? Write an applet code to display numerical values.

20. (a) What do you mean by graphics class? How to draw lines and rectangles?

Or

(b) What is event handling? Write short note on it.
