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Reg. No. : .....

Code No. : 20411 E      Sub. Code : CMCS 31

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 specifiers 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?

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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.
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