

QP Code: 548QP
Total No. of Pages: 3

Seat No.	
----------	--

January - February (Winter) Examination - 2023

Subject Name: Bachelor of Computer Application_88658_Java Programming_03.01.2023_02.30 PM to 05.30 PM

Subject Code: 88232

Day and Date: Tuesday, 03-01-2023
Time: 02:30 pm to 05:30 pm

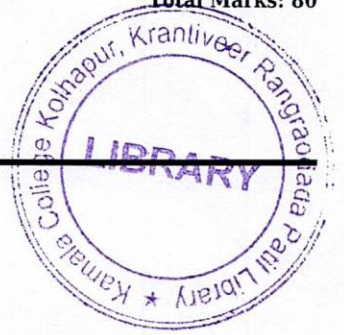
Total Marks: 80

Instructions.:

1) Figures to the right indicate full marks

Special Instruction.:

1) Q.1 and Q. 6 are compulsory and attempt any three Questions from Q.2 to Q. 5.



26

Q.1. A. Multiple Choice Questions (10)

1. Which of the following is a valid declaration of an object of class, say Box?

- a. `Box obj = new Box;`
- b. `Box obj = new Box();`
- c. `obj = new Box();`
- d. `new Box obj;`

2. Which statement is true about Java?

- a. Java is a sequence-dependent programming language
- b. Java is a code dependent programming language
- c. Java is a platform-dependent programming language
- d. Java is a platform-independent programming language

3. What is not the use of "this" keyword in Java?

- a. Referring to the instance variable when a local variable has the same name
- b. Passing itself to the method of the same class
- c. Passing itself to another method
- d. Calling another constructor in constructor chaining

4. Which of the following is not a correct statement?

- a. It is always necessary to use new operator to initialize an array.
- b. Array can be initialized using comma separated expressions surrounded by curly braces.
- c. Array can be declared and memory can be allotted in one statement.
- d. An array can be declared in one statement and memory can be allocated in other statement.

5. Which of these statements is incorrect about Thread?

- a. `start()` method is used to begin execution of the thread
- b. `run()` method is used to begin execution of a thread before `start()` method in special cases
- c. A thread can be formed by implementing `Runnable` interface only
- d. A thread can be formed by a class that extends `Thread` class

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

- a. Window
- b. Container
- c. Panel
- d. Frame

7. Which package provides many event classes and Listener interfaces for event handling?

- a. `java.awt`
- b. `java.awt.Graphics`
- c. `java.awt.event`
- d. None of the above

8. Which of these access-specifiers can be used for an interface?

- a. `public`
- b. `private`
- c. `protected`
- d. All of above

9. For which purpose packages are used in Java?

- a. Categorizes data
- b. Organizing java classes into namespaces
- c. For faster compilation
- d. None

10. Which of these keywords are used for generating an exception manually?

- a. `try`
- b. `catch`
- c. `throw`
- d. `check`

B. Short answer question (Any two out of three)

- 1. Explain different features of Java in details?
- 2. What is a Constructor? Explain types of Constructors in Java?
- 3. Explain Exception handling mechanism in Java with suitable example.





- Q.2. **What is an Operator? Explain different types of operators in Java with example.** [10]
- Q.3. **What is Inheritance? Explain different types of inheritance with syntax and example.** [10]
- Q.4. **What is Multithreading? Explain with example What are the ways to create multiple threads in java.** [10]
- Q.5. **Differentiate between AWT and Swing. List and explain any Five Swing components with their syntax and example.** [10]
- Q.6. **Write notes on (any Four)** [20]
- a) data types in Java
 - b) Method Overriding and Method Overloading
 - c) synchronization
 - d) create and access user defined package in Java
 - e) this and super Keywords
 - f) Looping statements

26