QP Code: 7597QP

Seat No.

Winter Examination Oct/Nov 2023

Subject Name: B.C.A. (CBCS)_88232_88658 - Java Programming_25.10.2023_02.30 PM To 05.30 PM

Subject Code: 88232

Day and Date: - Wednesday, 25-10-2023

Time: - 02:30 pm to 05:30 pm

Total Marks: 70

Instructions.:

    1) Figures to the right indicate full marks

Special Instruction.:

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

Q.1.   **A. Multiple Choice Questions(10)**   **[20]**

1. Which environment variable is used to set the java path?
a) JAVA_Path
b) JavaPATH
c) JAVA
d) JAVA_HOME

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 exception is thrown when java is out of memory?
a) MemoryError
b) OutOfMemoryError
c) MemoryOutOfBoundsException
d) MemoryFullException

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 are passive controls that do not support any interaction with the user? [20]
a. Choice
b. List
c. Labels
d. Checkbox

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 inheritance in Java programming is not supported?
a. Multiple inheritance using classes.
b. Multiple inheritance using interfaces.
c. Multilevel inheritance.
d. Single inheritance.

9. 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.

10. Which of these keywords are used for generating an exception manually?
a. try
b. catch
c. throw
d. check

B. Short answer Questions (Solve Any Two)
1. Explain History and different features of Java in details?
2. what is synchronization? Give its types and explain.
3. Explain different Layout Managers in java?

Q.2.   What are Java Selection Statements? Explain each one with syntax and example.   [10]

Q.3.   What is the multiple inheritance ? Write a java program to implement multiple inheritance   [10]

Q.4.   Explain about Event Delegation Model in Event Handling with example   [10]

Q.5.   Define exception in Java?. Explain in details Java exception Hierarchy   [10]

Q.6. Write notes on (Any Four out of Six) [20]

a) IS-A and HAS-A Relationship

b) Thread Life Cycle

c) Types of polymorphism

d) Differentiate between AWT and Swing

e) different data types supported by Java

f) types of Constructors