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M.Sc. (IT) (THIRD SEMESTER)
EXAMINATION, Dec. - Jan., 2021-22
(PAPER FIRST)
JAVA PROGRAMMING LANGUAGE

Time : Three Hours]**[Maximum Marks:100****Note :** Attempt all sections as directed.**Section - A****(Objective /Multiple Choice Questions)****(1 Mark each)****Note :** Attempt all questions:

Choose the correct answer:

1. _____ is used to find and fix bugs in the Java programs.

- (A) JVM
- (B) JRE
- (C) JDK
- (D) JDB

2. Which of the following is true about the anonymous inner class?

- (A) It has only methods
- (B) Objects can't be created
- (C) It has a fixed class name
- (D) It has no class name

3. Which package contains the Random class?

- (A) java.util package
- (B) java.lang package
- (C) java.awt package
- (D) java.io package

4. What do you mean by nameless objects?

- (A) An object created by using the new keyword
- (B) An object of a superclass created in the subclass
- (C) An object without having any name but having reference.
- (D) An object that has no reference.

5. Which of the following is a reserved keyword in Java?

- (A) object
- (B) strictfp
- (C) main
- (D) system

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6. All interface variables are _____ by default in java.
- (A) public
 - (B) final
 - (C) public and final
 - (D) None of the above
7. A class implementing an interface can use _____ access modifier before the implemented methods
- (A) Private
 - (B) Protected
 - (C) Public
 - (D) All of the above
8. A class member declared protected becomes a member of subclass of which type?
- (A) Public member
 - (B) Private member
 - (C) Protected member
 - (D) Static member
9. Which of these is a mechanism for naming and visibility control of a class and its content?
- (A) Object
 - (B) Packages
 - (C) Interfaces
 - (D) None of the above

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10. In which of the following package exception class exist?
- (A) java.util
 - (B) java.net
 - (C) java.io
 - (D) java.lang
11. What happen in case of multiple catch blocks?
- (A) Eighter super or subclass can be caught first
 - (B) The superclass exception must be caught
 - (C) The superclass exception can not caught first.
 - (D) None of above
12. Which of these are types of multitasking?
- (A) Process based
 - (B) Thread based
 - (C) Process and thread based
 - (D) None of above
13. Thread priority in java is?
- (A) integer
 - (B) float
 - (C) double
 - (D) long

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14. Can we call static methods using this from non static method?

- (A) True
- (B) False

15. Give the abbreviation of AWT

- (A) Applet Windowing Toolkit
- (B) Abstract Windowing Toolkit
- (C) Absolute Windowing Toolkit
- (D) None of them

16. Which of these methods are used to register a mouse motion listener?

- (A) addMouse()
- (B) addMouseListener()
- (C) addMouseMotionListener()
- (D) eventMouseMotionListener()

17. Which of these methods can be used to determine the type of event?

- (A) getID()
- (B) getSource()
- (C) getEvent()
- (D) getEventObject()

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18. Which of these class is super class of all the event?

- (A) EventObject
- (B) EventClass
- (C) ActionEvent
- (D) ItemEvent

19. Select the package in which JDBC classes are defined.

- (A) jdbc and javax.jdbc
- (B) rdb and javax.rdb
- (C) jdbc and java.jdbc.sql
- (D) sql and javax.sql

20. Which methods are required to load a database driver in JDBC?

- (A) getConnection()
- (B) registerDriver()
- (C) forName()
- (D) Both (B) and (C)

Section - B

(2 Marks each)

(Very Short Answer Type Questions)

Note - Attempt all questions.

1. What do you mean by JVM?

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2. Explain new operator.
3. What do you understand by method overriding?
4. Explain non static inner class.
5. What is thread class?
6. What is anonymous class?
7. Define StringBuffer class.
8. What is TreeSet in java?
9. What is DriverManager?
10. Define Callable statement.

Section - C

(3 Marks each)

(Short Answer Type Questions)

Note- Attempt all questions.

1. What do you understand by type conversion and casting in java?
2. Explain scope and life time of variable.
3. Explain the concept of interface in java. What is the importance of using interface in java?
4. Explain finalize() method with example.
5. Explain the life cycle of threads and the importance of multithreading in java.
6. Explain the concept of synchronization in java.
7. Explain wrapper class.

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8. What do you understand by object serialization?
9. What do you mean by Swing package?
10. Explain the delegation event model in java.

Section - D

(6 Marks each)

(Long Answer Type Questions)

Note- Attempt all questions.

1. What do you understand by Array? Also explain anonymous array with example.
2. What is the use of package in java? Define classpath also give examples of at least five packages used in java.
3. What do you mean by Exception? Explain the concept of Exception Handling in java.
4. Explain streams. What is the use of byte and character stream classes. Write a program for reading and writing the streams from console.
5. Explain the architecture of JDBC. Explain all classes and interfaces used in JDBC.