

Enrollment No: \_\_\_\_\_

Exam Seat No.: \_\_\_\_\_

# C. U. SHAH UNIVERSITY

## Winter Examination - 2022

**Subject Name: Programming with Java**

**Subject Code: 4CS05IJV1**

**Branch: B.Sc.I.T.**

**Semester: 5**

**Date: 22/11/2022**

**Time: 02:30 To 05:30**

**Marks: 70**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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**Que-1 Attempt all the following MCQs.**

**[14]**

1. Who invented Java Programming?
  - a) Guido van Rossum
  - b) James Gosling
  - c) Dennis Ritchie
  - d) Bjarne Stroustrup
2. Which component is used to compile, debug and execute the java programs?
  - a) JRE
  - b) JIT
  - c) JDK
  - d) JVM
3. What is the extension of compiled java classes?
  - a) .txt
  - b) .js
  - c) .class
  - d) .java
4. What is the return type of a method that does not return any value?
  - a) int
  - b) float
  - c) void
  - d) double
5. Which of this keyword can be used in a subclass to call the constructor of superclass?
  - a) super
  - b) this
  - c) extent
  - d) extends
6. Which of these keywords can be used to prevent Method overriding?
  - a) Static
  - b) Constant
  - c) Protected
  - d) final



7. Which of this method of class String is used to obtain a length of String object?
  - a) get()
  - b) Sizeof()
  - c) lengthof()
  - d) length()
8. Which of these keywords is not a part of exception handling?
  - a) try
  - b) finally
  - c) thrown
  - d) catch
9. Which of these keywords must be used to handle the exception thrown by try block in some rational manner?
  - a) try
  - b) finally
  - c) throw
  - d) catch
10. What does AWT stands for?
  - a) All Window Tools
  - b) All Writing Tools
  - c) Abstract Window Toolkit
  - d) Abstract Writing Toolkit
11. Which of these class is used to read from byte array?
  - a) InputStream
  - b) BufferedInputStream
  - c) ByteArrayInputStream
  - d) ByteArrayInputStream
12. 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
13. Which of these functions is called to display the output of an applet?
  - a) display()
  - b) paint()
  - c) displayApplet()
  - d) PrintApplet()
14. Which of these methods can be used to output a string in an applet?
  - a) display()
  - b) print()
  - c) drawString()
  - d) transient()

**Attempt any four questions from Que-2 to Que-8**

**Que-2 Attempt all questions.**

**[14]**

1. What is Java? Explain Java Buzzwords .
2. Explain OOP Basic Principals.

[7]

[7]

**Que-3 Attempt all questions.**

**[14]**

1. Explain Java Operators.
2. Explain Looping Statements in Java.

[7]

[7]



- Que-4 Attempt all questions.** [14]
1. What is Constructor? Explain in detail. [7]
  2. How to use Command Line in Java Argument Explain With Example. [7]
- Que-5 Attempt all questions.** [14]
1. What is Method Overriding Explain With Example. [5]
  2. What is Method Overloading Explain With Example.. [5]
  3. Explain any three AWT Controls. [4]
- Que-6 Attempt all questions.** [14]
1. What is Inheritance? Explain types of Inheritance. [5]
  2. How to define Package in Java? [5]
  3. What is Interface? Explain with example. [4]
- Que-7 Attempt all questions.** [14]
1. Explain Exception Handling Mechanism. [5]
  2. Explain Java Thread Model. [5]
  3. What is MultiThreading?. [4]
- Que-8 Attempt all questions.** [14]
1. Explain Applet Life Cycle. [5]
  2. Explain any three Layout Managers in GUI Programming. [5]
  3. Explain Event Delegation Model in Java. [4]

