Enrollment No: _____   Exam Seat No:_____

C.U.SHAH UNIVERSITY
Winter Examination-2021

Subject Name: Programming with Java - I

Subject Code: 4CS03BJV1   **Branch: BCA**

Semester: 3   **Date: 14/12/2021**   **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.

Q.-1   Attempt following MCQs.   14

1) Full form of JVM is _____
   a) Java Virtual Machine   b) Java Virtual Mechanisam
   c) Java value Machine   d) None of thsese

2) Java is _____ programming language.
   a) POP   b) OOP
   c) A or B   d) None of these

3) Who invented Java Programming?
   a) Guido van Rossum   b) James Gosling
   c) Dennis Ritchie   d) Bjarne Stroustrup

4) What is byte code in Java?
   a) Code generated by a Java compiler
   b) Code generated by a Java Virtual Machine
   c) Name of Java source code file
   d) Block of code written inside a class

5) Which of these keywords is used to define interfaces in Java?
   a) Interface   b) intf
   c) class   d) None of these

6) Java language was initially called as _____.
   a) Sumatra   b) J++
   c) oak   d) Pine

7) In Java code, the line that begins with /* and ends with */ is known as?
   a) Single line comment   b) Multiline comment

c) A and B both　　　　　d) None of these

8) Applets are designed to be embedded within an _____.
   a) Javascript　　　　　b) Css
   c) HTML　　　　　　　d) SQL

9) _____ method is defined in Graphics class, it is used to output a string in an applet.
   a) display()　　　　　b) Print()
   c) drawString()　　　　d) transient()

10) Which inheritance in java programming is not supported?
    a) Multiple inheritance
    b) Hierarchical inheritance
    c) Multilevel inheritance
    d) Single inheritance

11) In Java, the keyword used to declare a class is ___.
    a) class　　　　　　　b) final
    c) Interface　　　　　d) None of these

12) Which keyword is used to inherit a class in Java?
    a) Inherit　　　　　　b) implemented
    c) extends　　　　　　d) None of these

13) Which of these Listener is used for button click event?
    a) ActionListener　　　b) ItemListener
    c) WindowListener　　　d) None of these

14) Which of these method is used to draw arc in Applet?
    a) defineArc( )　　　　b) createArc( )
    c) printArc( )　　　　　d) drawArc( )

Attempt any FOUR from following.

Q.-2 Attempt following.　　　　　　　　　　　　　　　　**14**

a) What is java? Explain features of java.　　　　　　　　7
b) What is data type? Explain Data types available in java.　7

Q.-3 Attempt following.　　　　　　　　　　　　　　　　**14**

a) What is class? Explain class in detail with suitable example.　5
b) What is constructor? Explain types of constructor.　　　5
c) Write note on function overloading.　　　　　　　　　4

Q.-4 Attempt following.　　　　　　　　　　　　　　　　**14**

a) What is inheritance? Explain types of inheritance with suitable example　7

b) What is the use of graphics class? Explain its method in detail.   7

Q.-5   Attempt following.   **14**

   a) What is applet? Explain applet life cycle.   5
   b) What is package? Explain package in detail with example.   5
   c) What is thread? Explain Thread life cycle.   4

Q.-6   Attempt following.   **14**

   a) Write a note on access specifier available java.   5
   b) What is exception? Explain types of exception.   5
   c) What is type casting? Explain in detail.   4

Q.-7   Attempt following.   **14**

   a) Explain TextField and Button awt control.   5
   b) Explain interface with suitable example   5
   c) What is stream? Explain FileWriter class.   4

Q.-8   Attempt following.   **14**

   a) Write a java program to create marksheet class to perform following task.
      Marksheet

> Marksheet(rno,name,m1,m2,m3,m4) // parameterize constructor
> Process();   // do all process in this method

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      Find appropriate marksheet. Data input dynamically.

   b) Write a program to draw following design using graphics class.
      Applet size=500,500

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