Enrollment No: _____   Exam Seat No:_____

C.U.SHAH UNIVERSITY
Winter Examination-2021

Subject Name : Programming with Java

Subject Code : 4CS05IJV1   **Branch: B.Sc.I.T.**

Semester: 5   **Date: 14/12/2021**   **Time: 11:00 To 02:00**   **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) Which are features of java?
   a)   Platform independent   b)   Object Oriented
   c)   Secure   d)   All of above

2) Java does not have _____ inheritance
   a)   Single   b)   Multilevel
   c)   Multiple   d)   None of the above

3) Which package contains Random class?
   a)   java.io   b)   java.lang
   c)   java.awt   d)   java.util

4) In java, JAR means _____
   a)   Java Archive   b)   Java Application Run
   c)   Java Run   d)   Java App Resource

5) How many thread can be executed at a time?
   a)   Single   b)   Multiple
   c)   Only one main( ) thread   d)   None of these

6) _____ is used to initialize object.
   a)   Inheritance   b)   Class
   c)   Package   d)   Constructor

7) Full form of AWT is _____
   a)   Abstract window toolkit.   b)   Applet window toolkit
   c)   Abstract window task   d)   Applet window task
8) Which is used for Radio Button click event in java?
   a)   ActionEvent   b)   ItemEvent

| | c) | MouseEvent | d) | WindowEvent |

9) Command to execute compiled applet program of java is _____
   a) javaapplet   b) run
   c) appletviewer   d) runapplet

10) Which method is used to convert integer (int) to string in java?
    a) toInt( )   b) toString( )
    c) parseString ( )   d) parseType( )

11) _____is used to access variable at anywhere in program.
    a) public   b) private
    c) protected   d) None

12) Which provide run time environment for java bytecode to be executed?
    a) JRE   b) JVM
    c) JDK   d) None

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

14) Which of these is used to perform all input and output operations in java?
    a) stream   b) class
    c) variables   d) methods

Attempt any FOUR questions from following.

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

a) What is class? Explain its access specifiers.   5
b) Define array? Explain jagged array with example.   5
c) Explain Relational and Logical operator.   4

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

a) Define constructor? Explain parameterized constructor with example.   5
b) Define inheritance. Explain single inheritance with example.   5
c) What is method overloading? Explain method overloading with example.   4

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

a) Explain method overriding with example.   5
b) Define thread. Explain thread life cycle.   5
c) Explain any two methods of Vector class.   4

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

a) Explain any two method of Graphics class.   5
b) Explain any two method of Random class with example.   5

c) Define exception? Explain divide by zero exception with example. 4

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

   a) Define applet? Explain applet life cycle. 5
   b) Explain TextField and RadioButton control. 5
   c) Explain ActionListener and ItemListener interfaces. 4

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

   a) Explain event delegation model. 5
   b) What is stream? Explain FileWriter class. 5
   c) Write an applet program to draw and fill Rectangle with black color. 4

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

   a) Write a java program to create class student(no, name) and derive a new class Result (mark1, mark2, mark3, total) from student class. Input data in both classes and Print all data of student and Result class with total marks. 7
   b) Write an Applet program to enter no in TextField and print Reverse number when REVERSE Button is clicked. 7

Enter no.   9625

REVERSE

ANSWER   5269