Enrollment No: _____   Exam Seat No:_____

C.U.SHAH UNIVERSITY
Winter Examination-2018

Subject Name : Programming with Java –I

Subject Code : 4CS03BJV1   **Branch: B.C.A.**

Semester : 3   **Date : 29/11/2018**   **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 Video Machine   b)   Java Visual Machine
        c)   Java Vision Machine   d)   Java Virtual Machine

   2)   Size of <u>char</u> data type is _____ bits in java.
        a)   1   b)   2
        c)   8   d)   16

   3)   Which is default package of java?
        a)   java.io   b)   java.lang
        c)   java.net   d)   java.awt

   4)   Constructor is a special type of _____
        a)   Class   b)   method
        c)   Object   d)   All of the above.

   5)   A Class can implement _____ interfaces.
        a)   Only one   b)   one or more than one
        c)   maximum two   d)   None of the above.

   6)   if a=10 and b=20 then statement, a++ + b++ returns _____
        a)   32   b)   31
        c)   30   d)   29

   7)   Random class is available in _____ package.
        a)   java.io   b)   java.util

c) java.lang   d) java.net

8) Which of the following is relational operator in java?
   a) &&   b) OR
   c) +   d) >=

9) _____ member can be accessed by the member of its class only.
   a) private   b) public
   c) default   d) protected

10) To run applet _____ command is used.
   a) javac   b) java
   c) appletviewer   d) ShowApplet

11) Exception class is available in _____ class.
   a) java.io   b) java.lang
   c) java.Exception   d) None

12) In java, thread can be created by _____
   a) extending thread class   b) implementing runnable interface
   c) both A and B   d) None

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

14) Which of these method is used to draw string in applet?
   a) drawStream( )   b) drawLine( )
   c) drawString( )   d) String( )

Attempt any FOUR.

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

a) Explain history and features of java.   7
b) Define array? How to declare Jagged array ? Explain Jagged array with
   suitable example.   7

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

a) Define inheritance? List all types of inheritance and Explain single inheritance
   with suitable example.   7
b) What is Exception? Define try, catch, throw keyword. Explain try and catch block
   with suitable example.   7

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

a) How to initialize object? Explain parameterized constructor with example.   7
b) Define interface. When it is used? Explain interface with suitable example.   7

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

  a) Write a note on :Applet Life Cycle.   5
  b) Explain any two method of Vector class with example.   5
  c) Write a note on: ActionListener and ItemListener.   4

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

  a) Explain event delegation model.   5
  b) Explain CheckBox control with ItemEvent.   5
  c) Describe Writer class with any two methods.   4

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

  a) Define Thread. Explain thread life cycle.   5
  b) Define visibility. Describe Access specifiers.   5
  c) Write an applet program to draw and fill Circle with black color.   4

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

a) Create super class student(rno, name) and derive class marks(m1,m2,m3, total, per).
   Write a program to input and print data for above classes.   7
b) Write a program to implement following using applet.
   (Note : MAXIMUM is command button)   7

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┌─────────────────────────────────────┐
│                                      │
│   Enter no. 1    [              ]    │
│                                      │
│   Enter no. 2    [              ]    │
│                                      │
│                  [     MAX     ]     │
│                                      │
│   ANSWER         [              ]    │
│                                      │
└─────────────────────────────────────┘
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