

SHIVAJI COLLEGE, UNIVERSITY OF DELHI

DEPARTMENT OF CHEMISTRY

INTERNAL TEST (Academic Year 2023-24) (Re-Test)

Name of the Course: B.Sc. (H) Chemistry

Semester: VI

Name of the Paper: Applications of Computers in Chemistry

Faculty Name: Dr. Richa Arora

Duration: 01 Hour

Maximum Marks: 10

Date of Test: 02.05.2024

Attempt all questions

Q1. Identify the errors in the following program and rectify them (**Attempt any ONE PART according to your class roll number**):

(1) **Attempt this part if the last digit of your class roll number is odd:**

10 SCREEN 8

20 WINDOW (10,10) (50,50)

30 LINE (15)-20,20

40 PSET -(20,20)

50 END

(2) **Attempt this part if the last digit of your class roll number is even:**

10 SCREEN

20 VIEW PORT (10,10)-(500,300)

30 CIRCLE (50,50), 1, 700

40 LOCATE (20)

50 PRINT "POINT"

60 END

(2)

Q2. Write the output of the following (**Attempt BOTH PARTS**):

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(1) 10 SCREEN 1

30 FOR I = 40 TO 70 STEP 10

40 CIRCLE (20,20), I

41 PSET (20,20)

50 PAINT (20,20)

60 NEXT I

70 END

(2) 10 SCREEN 2

30 WINDOW (0,0)-(20,40)

40 PSET (10,10)

41 LINE (15,15)-(20,20), B

50 END

(4)

Q3. Write a program in BASIC to plot PV isotherm curve for (Attempt any ONE PART according to your class roll number):

(1) Attempt this part if the last digit of your class roll number is odd:

Oxygen gas at 1000 K

(2) Attempt this part if the last digit of your class roll number is even:

Carbon dioxide gas at 1500 K

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