Computer Application

Total :40 marks
Time:1 hr

Question 1. [10]
   (a) What is a token in Java?
   (b) What is the need of JVM.
   (c) Write the syntax of a class definition
   (d) State the difference between == operator and = operator.
   (e) What do you mean by constant ? Explain with example.

Question 2. [10]
   (a) What is data type? Give one example.
   (b) Explain any two OOPS principles.
   (c) What will be the value of t, if t = 10 before these statements?
      (i)   t - = ++t + (--t) * 2;
      (ii) t += t-- + ++t + --t;

   (d) If boolean x =true, y = false and z = true what will be the result of the following statements:
      (i)   x || !y && z
      (ii) x || !(y && z)
   (e) Write any four rules for naming classes.

Question 3. [10]
   Write a program to compute the tax according to the given conditions and display the output as per given format.

Total Annual Taxable Income	Tax Rate
Upto Rs. 1,00,000	No tax
From 1,00,001 to 1,50,000	10% of the income exceeding Rs. 1,00,000
From 1,50,001 to 2,50,000	Rs. 5,000 + 20% of the income Exceeding Rs. 1,50,000
Above Rs. 2,50,000	Rs. 25,000 + 30% of the income exceeding Rs. 2,50,000

Question 4 [10]
   Design a class for Employees of an organization to accept name and basic salary of an employee and calculate gross salary as per given conditions:

Basic Salary	DA	LIC
Upto 20000	20	7
<50000	30	10
Otherwise	35	12

   DA(Dearness Allowance) and LIC (A deduction for the Life Insurance Corporation Premium) are calculated as percentages on the basic salary earned by the employee.
   A standard Provident Fund Deduction of 8.33% on the basic salary is also levied on all the employees.
   Print a well formatted Salary Slip with all the details.