Computer

Q1. Fill in the blanks: [½ x 4 = 2]

   i.   The character set used by JAVA is _____.
   ii.   The result of the expression 20 / 25 will be _____.
   iii.   The expanded form of the expression x - = x + 5 * y will be _____.
   iv.   The escape sequence \t represents _____.

Q2. State the **size** and **range** of the following datatypes: [½ x 4 = 2]

   i.   int   ii.   double

Q3. Write the default values of the variables of the following datatypes: [½ x 4 = 2]

   a) int   b) float   c) char   d) boolean

Q4. Write the full form of **ASCII**. State the ASCII values of the following characters: [1 + ½ x 2 = 2]

   i.   a to z   ii.   blank space

Q5. Differentiate between (state two points of distinction for each):   [2]

   i.   = = and =   ii.   Character literal and String literal

Q6. State any four **rules** of forming identifiers.   [2]

Q7. A quarantine facility has received 1193 food packets from an NGO. Write a program to display how many
    gross, how many dozens and how many extra packets has the facility received.
    [A dozen = 12 units, a gross = 12 dozens or 144 units]   [4]

Q8. WAP to accept the radius of a sphere and display its volume and surface area. The value of Π should be
    taken as constant demonstrating the use of the keyword final. The formulae are as follows:

   (volume) $V = 4/3 \ \Pi r^3$ (surface area) $A = 4\Pi r^2$.   [4]

----- x -----