

## Assignment:

### Q No 1:

A) Find the missing terms:

1.  $2, 3, 6, 4, 5, 20, \underline{\quad}, 3, 18.$

$$\begin{array}{ccccccccc} 2, 3, 6, 4, 5, 20, & \underline{6} & & 3, 18 \\ \times & \times & & \times & & & & \\ & 6 & 20 & & & & & 18 \end{array}$$

Missing no. is 6.

2.  $1, 3, 9, 15, 25, \underline{\quad}, 49$

$$\begin{array}{ccccccccc} & +8 & & 16 & & 24 & & \\ 1, 3, 9, 15, 25, & & & & & & & \\ & 35 & & & & & & 49 \end{array}$$

$$1^2 = 1$$

$$2^2 = 4 - 1 = 3$$

$$3^2 = 9$$

$$4^2 = 16 - 1 = 15$$

$$5^2 = 25$$

$$6^2 = 36 - 1 = \boxed{35}$$

$$7^2 = 49$$

Missing no. is 35.

3.  $2, 7, 10, 22, 18, 37, 26, \underline{\quad}$

$$\begin{array}{ccccccccc} & +8 & & +8 & & +8 & & \\ 2, 7, 10, 22, 18, 37, 26, & & & & & & & 52 \\ & +15 & & +15 & & +15 & & \\ & 15 & 15 & 15 & & & & \end{array}$$

Missing no. is 52.

explain the logic in the form of statements as well