

ASSIGNMENT - IV

1 Q:	<u>Year</u>	<u>Age</u>	<u>Vol.(according to YT)in cum</u>
	2001	80	330
	2011	90	410

In 2001 inventory data showed avg. vol. of stand of 20 cm dia and over to be 300 cum.

Find out volume growth during 10 years considering :

- I. Constant stocking
- II. Growth in stocking 3% over 10 years period.

2 Q: For a crown/bole diameter ratio of 12, crown diameter and bole diameter in m, what will be the maximum feasible basal area per hectare, G_{max} with square spacing.

3 Q: At 8 points in a plantation chosen systematically, the following data were collected on the number of trees –n- in circular plots of area 0.01 ha.

Data: n=15,16,17,13,13,9,16,14

Calculate number of trees per ha.

4 Q: In a plantation twelve points chosen systematically,

I. the distance-L,- between the nearest two trees was measured and recorded in m.

Data: $L_j = 3.25, 2.75, 2.05, 3.55, 2.85, 2.90, 3.10, 3.35, 3.60, 2.65, 3.05, 3.0$.

I. the distance from the sampling to the 4th nearest tree (n=4) was measured and recorded in m.

Data: $K_j = 5.5, 4.6, 4.8, 6.1, 5.7, 6.2, 5.4, 6.0, 5.7, 5.6, 6.1, 6.0$

Calculate number of trees per ha in each case.