Safo.2106   Forest Mensuration (2+1)

Marks: 50
Time: 2 hours
(10x1=10)

I.   **Fill in the blanks**

1   One hectare = ……….. m^2
2   In India, breast height of standing trees is ………. m above ground level.
3. Quarter girth volume is ……. % of the full circular volume.
4   Chaturvedi ……. and ………LS (2011). Forest Mensuration and Biometry (5thEdition). Khanna Bandhu. Dehra Dun 364 pp.
5   Forest mensuration is applied in sale of forest produce, management of forests, research, and ………………

        Define the Following

6   Forest Mensuration
7   Form quotient
8   Taper of a tree
9   Total tree height
10 Sample plot

II   **Write Short notes on any FIVE of the following**   (5x2=10)
1   Volume table
2   Yield table
3   Metzer's theory
4   Form factor
5   Crown cover
6   Standard stem timber
7   Presslers's increment borer

III   **Answer any FIVE of the following.**   (5x4=20)
1   A teak log measures 8 m in length and 160 cm under-bark mid-girth. Calculate its commercial volume.
2   How will you estimate the age of a standing tree?
3   What do you understand by biomass? How do we estimate the above-ground biomass of a plantation?
4   What are the sources of error in height measurement?
5   What do you understand by the term height class? What is its applicability in forestry?
6   What is the difference between general, regional and local volume tables?
7   Explain two non-instrumental methods for measuring height of trees.

IV   **Write an essay on any ONE of the following**   (1x10=10)
1   Estimation of commercial timber volume and firewood volume of a 50 year-old teak plantation in Nilambur due for filling.
2   Importance of CAI and MAI in forestry.

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