Safo. 2208   Agroforestry Systems and Management (2+1)

Marks: 50
Time: 2 hours

I   **Fill in the blanks:**   (10x1=10)

1   The direct or indirect effect of one plant upon another through the production of chemical inhibitors is ------------
2   Taungya was first introduced by -------------
3   Integration of trees with grasses is known as -------------
4   Planting protein rich trees on or around farmlands and range lands for cut and carry fodder production is -------------
5   Home gardens are suitable for ------------- areas.
6   Non legumes fix atmospheric nitrogen in association with the help of -------------
7   The process of cycling of nutrients from soil to the plant and back to the soil is -------------
8   NWDB classified wastelands into ------------- types.
9   The land which cannot be used for vegetation is ------------- wastelands.
10 Fuel wood trees should have -------------

II   **Write short notes on any FIVE:**   (5x2=10)

1   Boundary planting.
2   Protein bank.
3   Alley cropping.
4   Structural dynamics of home gardens.
5   Allelopathy.
6   Pruning.
7   Carbon sequestration.

III   **Answer any FIVE:**   (5x4=20)

1   Narrate the history of agroforestry in India.
2   Briefly write about different types of taungya and its advantages.
3   Describe the design and management of shelter belts.
4   What is the role of agro forestry in soil fertility?
5   What are the key features of agroforesty Diagnosis and Design? Briefly write the procedures of macro D &D.
6   What are the suitable agroforestry systems for different agroclimatic zones of Kerala.
7   How do you generate rural income and meet industrial raw material requirements through agroforestry.

IV   **Write essay on any ONE:**   (1x10=10)

1   Discuss in detail about nutrient cycling in agroforestry with schematic diagram.

2   a) Explain about the fertilizer use in agroforestry.

    b) Suitable agroforestry systems for different wastelands.

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