Sacs.1208   **Principles of Horticultural Crops and Plant Protection (1+1)**   Marks: 50
Time: 2 hours

I   **Fill in the blanks**   (10x1=10)
1. India ranks ……………..in fruit and vegetable production in the world.
2. The edible part of cauliflower is known as …………..
3. In banana …………..types of suckers are produced.
4. Fine seeds are usually broadcast by mixing with …………..
5. The P^H in soils can be raised by adding ……………
    State True or False
6. Micro propagation is also called as in vitro propagation.
7. Vegetative part of the plant separated from mother plant and become a new plant is called cutting.
8. Bananas are propagated by water sucker.
9. The sterilization of soil is done to avoid soil-borne disease.
10. Golden Acre is an important variety of Cauliflower.

II   **Write short notes on ANY FIVE of the following**   (5x2=10)
1. Square system of planting in fruit crops
2. Critical stages of water requirements in tomato, cabbage, pea and spinach
3. Veneer grafting
4. Foliar application in horticultural crops
5. Fertigation
6. Advantages of pruning
7. Principles of seed production

III   **Answer ANY FIVE of the following**   (5x4=20)
1. Write the advantages and disadvantages of vegetative or asexual propagation.
2. Discuss briefly the seed extraction methods in tomato.
3. Write briefly about soil and climatic requirements of mango.
4. Write briefly about the importance of layout of an orchard.
5. Discuss briefly about different macro propagation methods in fruit crops.
6. Write briefly about soil and climatic requirements of tuberose.
7. Write briefly about the differences between training and pruning.

IV   **Write an essay on ANY ONE of the following**   (1x10=10)
1. Define Horticulture. Discuss briefly about the different branches of horticulture.
2. Briefly discuss the production technology of pumpkin under the following heads.
    (a)   Seed rate
    (b)   Spacing
    (c)   Sowing time
    (d)   Soil and climatic requirements
    (e)   Nutrient management
    (f)   Harvesting

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