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Sub. Biology

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1. What are the desirable characters of bee varieties suitable for honey production?

- The variety of bee should yield large amount of honey.
- The bees should stay for a longer period in bee hives
- The bees should not sting much.
- Bee should be disease resistant.

2. What is pasturage and how is it related to honey production?

Pasturage refers to the availability of flowers to the bees for easy accessibility for pollen collection and nectar. Kinds of flowers available will determine the taste of the honey, hence Pasturage is the main reason for the good quality honey.

3. Explain any one method of crop production which ensures high yield.

Plant breeding is one of the method adopted for high yield plant breeding and is implemented to improve the varieties of crops by breeding plants. Plants from various places/areas are picked up with preferred traits and then the process of hybridization or cross-breeding is done among these diversities to get a crop/plant of anticipated characteristic.

4. Why are manure and fertilizers used in fields?

Manures and fertilizers are used to enrich the soil quality and improve the yield. They also help in controlling the diseases. Manure and fertilizers replenish the soil by supply nutrients to the soil. They are excellent source of potassium, phosphorous and nitrogen which assist in healthy development of plants. Manures and fertilizers mainly improve the fertility of the soil.

5. What are the advantages of inter-cropping and crop rotation?

Inter-Cropping

- Checks pests and rodents and hence decreases the chances of spoiling of whole crops.
- Decreased chances of soil erosion.
- Reduced loss of crops with high yield.
- Less water requirement.

Crop-rotation

- Farmers can grow two or three crops annually.
- Pulses take nitrogen directly from the atmosphere, and hence require minimal amount of fertilizers.
- Both fruits and Vegetables can be grown easily.
- Best use of land with proper supply of nutrients.