

E 463-2

M.Sc. (Sem II) Examination

Botany

BOT 410:Plant Breeding and Horticulture (New course)

Time : 3 Hours]

[Max. Marks: 70

Instructions : All questions are compulsory and carry equal marks

Q.1. Explain:

- A. Origin of Plant breeding OR A. Hybrid vigour 07
B. Hybridization OR B. Objectives of plant breeding. 07

Q.2. Write Short notes on :

- A. Anatomical Aspects of rooting of cuttings OR A. Seed storage and viability 07
B. Anatomical Aspects of Layering OR B. Ornamental Climbers 07

Q.3. Describe:

- A. Advantages of Green house OR A. Organic farming 07
B. Features of a Garden OR B. Botanical Garden in Gujarat 07

Q.4. Justify the significance of:

- A. Green Building OR A. Water use 07
B. Carbon credits OR B. Solar energy utilization 07

Q.5. Give one word for:

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1. A garden without formal boundaries.
 2. A test done to see if the characters selected have appeared in the progeny.
 3. An auxin that promotes rooting.
 4. Use of plastic or plant material to cover the soil & minimise loss of moisture from the soil.
 5. The responsibility taken by corporate houses to take care of our environment.
 6. A landscape that generates almost no waste.
 7. A food material which has live bacteria added to it.
 8. Type of stem cutting used to propagate mint plant.
 9. The art of cutting ornamental shrubs and trees into attractive shapes.
 10. Storing forest tree seeds in liquid nitrogen for a long viability.
 11. A plant part having genetically distinct cells lying side by side.
 12. The process of removing anthers from a closed bud during plant breeding experiments.
 13. The best method used to propagate orange or white coloured cati.
 14. A type of landscaping that utilizes minimum water.
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