

HORTICULTURE

980003

Paper-II

Time: 3 Hours

Full Marks: 100

Instructions : (1) Answer any **five** questions.

(2) The figures in the right-hand margin indicate full marks for the questions.

1. Write brief notes on the following : 4×5=20
- (a) Micropropagation
 - (b) Mulching in fruit crops
 - (c) Seed certification
 - (d) Intercropping in fruit crops
 - (e) Multistorey cropping
2. (a) Define the following terms : 1×10=10
- (i) Vernalization
 - (ii) Topiary
 - (iii) Male sterility
 - (iv) Marmalade
 - (v) Landscaping
 - (vi) Plant hormones
 - (vii) Heterosis
 - (viii) Photoperiodism
 - (ix) Seed dormancy
 - (x) Bonsai
- (b) Distinguish between the following : 2×5=10
- (i) Fruit drop and Fruit thinning
 - (ii) Grafting and Budding
 - (iii) Jams and Jellies
 - (iv) Pomology and Olericulture
 - (v) Macronutrients and Micronutrients

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3. (a) Prepare a list of important medicinal plants of Arunachal Pradesh indicating their methods of propagation and common uses. $5+2\frac{1}{2}+2\frac{1}{2}=10$
- (b) Prepare a list of major plantation crops indicating their methods of propagation and one commercial cultivar in each crop. $5+2\frac{1}{2}+2\frac{1}{2}=10$
4. (a) State the commercial method of propagation of rose, marigold, chrysanthemum, gladiolus, dahlia and jasmine indicating two commercial cultivars in each of the crops. $2\times 6=12$
- (b) What are various types of orchids? How orchids are grown? $4\times 2=8$
5. (a) What are cole crops? State their commercial cultivars and seed rate. $2+3+3=8$
- (b) Write on the cultivation practices of either tomato or brinjal with special reference to cultivars, seed rate, pest and diseases. $3\times 4=12$
6. (a) How do you judge maturity indices in various fruit crops? 10
- (b) Write in brief the method of preparation of either guava jelly or orange marmalade. 10
7. Write in brief on either banana culture or pineapple culture with special reference to plant propagules, cultivars, methods of planting, production problems and harvesting. $4\times 5=20$