

MIZORAM PUBLIC SERVICE COMMISSION

GENERAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF JR. GRADE OF MIZORAM FOREST SERVICE (ASST. CONSERVATOR OF FORESTS) UNDER ENVIRONMENT, FOREST & CLIMATE CHANGE DEPARTMENT, GOVERNMENT OF MIZORAM, 2023

HORTICULTURE

Time Allowed : 3 hours

Full Marks : 100

The figures in the margin indicate full marks for the questions.

*Answer any 10 (ten) questions
taking 5 (five) questions from each section.*

SECTION - A

1. Write in brief about the import and export scenario of horticultural crops with special reference to fruits and vegetables in India. (10)
2. Write briefly about different systems of planting along with suitable diagram. Give a brief note on concentrated organic manure. (7+3=10)
3. Describe the role of macro and micro nutrients in horticulture with their deficiency symptoms. (10)
4. Briefly write about factors affecting unfruitfulness. Explain the causes and remedial measures for fruit drop. (5+2+3=10)
5. What is micropropagation? What are the different steps involved in micropropagation? Explain in brief about the micropropagation followed in papaya and banana (10)
6. Enumerate the role of soil pH, EC and soil depth in fruit production. Explain in brief about the soil requirement for dragon fruit, pineapple, grapes, mandarin orange and banana. (10)

SECTION - B

7. Point out the major challenges and opportunities of medicinal and aromatic plants in North East India including Mizoram. (10)
8. Describe in detail about the package of practice of chrysanthemum and rose. Also mention about its commercial importance. (10)
9. Briefly write about the soil, irrigation, seed rate, seed treatment, varieties, spacing and plant protection of tomatoes for cultivation under protected condition. (10)
10. Briefly write about **any four** of the following topics: (4×2.5=10)
 - (a) Rapid multiplication of black pepper
 - (b) Curing and polishing of turmeric
 - (c) Diseases of ginger
 - (d) Pruning in tea
 - (e) Processing of rubber
 - (f) Processing of parchment coffee
11. What are the factors responsible for citrus decline? Briefly describe the management of citrus decline. (10)
12. What is mango malformation? Mention the causes and remedial measures of mango malformation. (10)