

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

SILVICULTURE

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. What is succession? Describe in detail the different types of successions in the perspective of silviculture. (2+8=10)
2. Giving suitable example, discuss the role of edaphic factors in the distribution of plants. (10)
3. Discuss the different types of forest fire and their impacts on vegetation. (5+5=10)
4. Discuss the importance of ecological factors on the choice of species for plantation. (10)
5. Discuss the suitable measures you would suggest to attain a successful natural regeneration from vegetative parts in the forests. (10)
6. What do you understand by crown development? Discuss its impact on the growth of tree and stand development. (2+8=10)
7. What do you understand by forest types? Discuss the factors affecting the classifications of forest types. (2+8=10)

SECTION - B

8. Discuss the silvicultural characteristics of the following species: **(5+5=10)**
(a) *Tectona grandis*
(b) *Toona ciliata*
9. Describe the Indian irregular shelterwood system and its application in the tropical rain forest, give a suitable example. **(10)**
10. Discuss the importance of coppice system. Describe the various factors affecting the coppice systems. **(5+5=10)**
11. Discuss in detail the clear felling systems, emphasising on the merits and demerits. **(10)**
12. Discuss the socio-economic importance of bamboo in Mizoram, with a note on the status and prospects of bamboo silviculture in Mizoram. **(10)**
13. Discuss the general description of *Rhododendron* and its distribution pattern in Mizoram. **(5+5=10)**
14. Write notes on the following: **(5+5=10)**
(a) Uniform system
(b) Pollard system

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