

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

FORESTRY

Time Allowed : 3 hours

Full Marks : 100

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

*Answer any 5 (five) questions
taking not more than 3 (three) questions from each section.*

SECTION - A

1. What are the criteria for selection of tree components in agroforestry systems? Give an account of Multipurpose Tree Species (MPTs) suited for different agro-ecological zones. **(10+10=20)**
2. Write short notes on the following: **(4×5=20)**
 - (a) Role of mycorrhizae in ameliorating soil
 - (b) Windbreaks and shelterbelts
 - (c) Leaf litter decomposition and the formation of humus
 - (d) Role of forest in conserving soil
3. Explain the importance of watershed management in the context of Mizoram. Give a brief account of techniques available for rehabilitation of degraded watersheds. **(10+10=20)**
4. Write short notes on the following: **(4×5=20)**
 - (a) Global warming- causes and its impact on forests
 - (b) Causes, impact and prevention of acid rain
 - (c) Importance of environmental conservation for sustainable development
 - (d) Forest fire management
5. Discuss in brief the various methods of conservation of forest genetic resources. Also comment on the status of conservation of forest genetic resources in North East India. **(20)**

SECTION - B

6. Write short notes on the following: **(4×5=20)**
- (a) Concept of sustained yield
 - (b) Role of working plans in forest management
 - (c) Role of joint forest management in conservation of forest in India
 - (d) Management of forest plantation
7. Write short notes on the following: **(4×5=20)**
- (a) Yield tables
 - (b) Sampling methods in forestry
 - (c) Volume estimation of stand
 - (d) Forest cover monitoring through remote sensing
8. Write short notes on the following: **(4×5=20)**
- (a) Plane table survey
 - (b) Ecological succession
 - (c) Forest types in India
 - (d) Forest community concept
9. Give a detailed account of Indigenous Traditional Knowledge about ethno-medicines in North East India. **(20)**
10. Write short notes on any four of the following: **(4×5=20)**
- (a) Properties and uses of plywood
 - (b) Macroscopic and microscopic features of wood
 - (c) Management of forest pests and diseases
 - (d) Salient features of Indian Forest Policy, 1988
 - (e) Salient features of Forest Conservation Act 1980

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