

MIZORAM PUBLIC SERVICE COMMISSION

GENERAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF JUNIOR GRADE OF MIZORAM FOREST SERVICE i.e. ASSISTANT CONSERVATION OF FOREST (ACF) UNDER ENVIRONMENT, FOREST & CLIMATE CHANGE DEPARTMENT, GOVERNMENT OF MIZORAM, 2018

FORESTRY

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 an account on the relevance of agroforestry system with an emphasis on soil & water conservation and nutrients availability to crops. (10)
2. What is Joint Forest Management? Write the general principles of usufructs sharing under Joint Forest Management. (3+7=10)
3. Elaborate on the various factors affecting physical, chemical and biological properties of soil. (10)
4. Explain the importance of watershed management in rural development. (10)
5. Write notes on the following : (2×5=10)
 - (a) Nitrogen cycle
 - (b) Green House effect
6. Write short notes on: (2×5=10)
 - (a) Clonal seed orchards
 - (b) Utility of hybrid vigor in tree breeding
7. Discuss the necessity and procedure for *in-situ* conservation of forest genetic resources. (10)

SECTION - B

8. Discuss forest management systems with reference to stand structures and growing stock regulation of yield. (10)
9. Write notes on the following: (2×5=10)
 - (a) Development of forest resources & forest industries.
 - (b) Roles of Working plans and Working schemes in forest conservation.

10. Describe the different sampling methods used in forest survey. (10)
11. What are the major forest types in India? Briefly discuss the important species composition in each forest type. (3+7=10)
12. Write short notes on: (2×5=10)
- (a) Role of ethno-botany in Indian system of medicines.
 - (b) Marketing of medicinal plants in India
13. Write notes on the following: (2×5=10)
- (a) Different types of NTFPs
 - (b) Impacts of animals and human on forest regeneration
14. Write short notes on: (2×5=10)
- (a) Methods of forest valuation
 - (b) Wildlife Protection Act 1972

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