

MIZORAM PUBLIC SERVICE COMMISSION
MIZORAM CIVIL SERVICES (COMBINED COMPETITIVE)
MAIN EXAMINATION, 2023

AGRICULTURE PAPER-I

Time Allowed : 3 hours

FM : 100

Marks for each question is indicated against it.

Attempt any 5 (five) questions taking not more than 3 (three) questions from each Part.

PART - A

1. (a) Discuss the basic concept of ecological balance with reference to human needs and availability of natural resources. (15)
(b) Define Natural Resources and write the different types of Natural Resources with example. (5)
 2. Explain Global climate change and its consequences in agriculture. Discuss the ways to mitigate greenhouse gases emission. Describe the technologies to be adopted for farmers of Mizoram to combat climate change and increase in agricultural productivity. (6+7+7=20)
 3. Differentiate between organic and natural farming. Principles of organic farming. Briefly comment on the nutrient, pest and disease management strategies in organic farming. (6+4+10=20)
 4. (a) What do you mean by Farm Management? Write down its objectives and measures to improve farm productivity. Explain in brief the various types of economic farming system practiced in India. (5+5+10=20)
- OR**
- (b) What is the role of NGO, SHG and KVK in agricultural development in the state with specific example? What is KVK, its origin, mandate and objectives in the state? (10+10=20)

PART - B

5. (a) Explain how agro-forestry can best be utilized in natural farming system to safeguard the need of farmers for food, fibre and fuel. (10)
(b) Describe the basic consideration of selection of tree species for inclusion in agro-forestry system for natural farming. (10)
6. (a) Describe the role of nitrogen, phosphorus and potassium and their deficiency symptoms. (15)
(b) Problem Soils and their reclamations (5)
7. What is Soil Erosion, types and causes of soil erosion? Write the methods of soil conservation practices and how it helps in conservation of soil in hilly areas. (10 + 10 = 20)
8. Write short notes on the following: (2×10=20)
 - (a) Rainwater Harvesting and its importance
 - (b) Effect of Industrial effluents on soil health and agriculture.