

**AGRICULTURE**

**PAPER - I**

Time Allowed : 3 hours

Full Marks : 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. Define ecology and give in brief its basic principles for environmental conservation. Discuss the environmental factors affecting crop distribution and production. **(10+10=20)**
2. Explain cultural, biological and chemical control of weeds in rice and maize based cropping system. **(20)**
3. Answer the following: **(10×2= 20)**
  - (a) Discuss the Minimum Support Price (MSP) and its determination.
  - (b) Define Information and Communication Technologies (ICTs). Discuss various initiative to promote ICTs in agriculture.
4. What is Krishi Vigyan Kendra (KVKs)? How many KVKs are in Mizoram? What are the mandates of KVKs? How KVKs are impacting the agricultural development in the state? **(5+4+4+7=20)**

**PART - B**

5. Discuss application of various agro forestry systems on enhancing farm income and livelihood of farmers. **(20)**
6. What are the features of Soil Health Card Scheme? What is the need of Soil health Card in the country? Describe the challenges and prospects of Soil Health Card Scheme in the country? **(5+5+5+5=20)**
7. What is soil erosion? What are the consequences of soil erosion? What are the factors influencing the soil erosion? Explain the measures of soil conservation. **(2+5+5+8=20)**
8. Write short notes on any two of the following: **(10+10=20)**
  - (a) Integrated watershed management
  - (b) Parameters for determination of quality of irrigation water
  - (c) Micro irrigation: methods and applications