

AGRICULTURE PAPER - I

Time Allowed : 3 hours

Maximum Marks : 100

QUESTION PAPER SPECIFIC INSTRUCTIONS

(Please read each of the following instruction carefully before attempting questions)

There are eight (8) questions - four (4) questions each in Part A & B. Each question carries 20 marks.
Marks for each question is indicated against it.

Compulsory questions :

- (a) Question No. 1 from Part-A and
- (b) Question No. 5 from Part-B

[Compulsory questions No. 1 & 5 have 4 (four) Sub-questions carrying 5 marks each.]

Total No. of questions to be attempted :

5 (five) questions.

[A candidate shall attempt 2 (two) compulsory questions from Part A and B. Out of the remaining 6 (six) questions, 3 (three) are to be attempted taking at least 1 (one) but not more than 2 (two) questions from each Part]

Word Limit:

- (a) Compulsory questions carrying 5 marks shall have a limit of 150 words.
 - (b) There shall be no word limit for the remaining questions.
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PART - A

1. Write notes on the following: (4×5=20)
 - (a) GIS application in Agriculture.
 - (b) Crop Insurance.
 - (c) Biological method of weed control.
 - (d) Role of Krishi Vigyan Kendra (KVK) in technology dissemination.
2. What is Agro-Climatic Zones? List any 15 agro-climatic zones that are found in India. (5+15=20)
3. What are the different types of pollution related to agriculture? Describe its impacts, indices for monitoring and the steps for restoration. (10+10=20)
4. Describe in detail the principles of extension education and explain the visual aid tools to impact rural education in India. (10+10=20)

PART - B

5. Write notes on the following: (4×5=20)
 - (a) Crop water use efficiency.
 - (b) Integrated Nutrient management.
 - (c) Types and causes of soil erosion.
 - (d) Agrisilvicultural Systems.
6. What is soil formation? Describe the soil formation factors in details discussing both the passive and active factors. (5+15=20)
7. Define watershed management. List and explain the different mechanical, agronomical and agroforestry measures for soil conservation. (5+15=20)
8. Explain Integrated Farming System (IFS). Describe at least three indigenous agroforestry system practice of NE India. Explain the steps initiated in Mizoram to reduce shifting cultivation and its impacts. (5+8+7=20)

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