

CSM : 18

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. What do you mean by ecosystem and its components? What adverse effect may occur if there is any disturbance to the ecosystem? Explain the physical and social environment as factor of crop distribution and production. **(5+10+5=20)**
2. Differentiate *any four* of the followings. **(5×4=20)**
 - (a) Renewable and Non-renewable resources in agriculture.
 - (b) Intensification and Diversification in agriculture.
 - (c) Sequential and relay cropping.
 - (d) Cropping intensity and rotational intensity.
 - (e) Krishi Vigyan Kendra and Agricultural Technology Information Centre.
3. What do you mean by agricultural extension? What are the principles of extension education? What are the gaps in extension service in India? **(5+5+10=20)**
4. What is farm planning and what are its objectives? What are the principal characteristics of a good farm plan? **(10+10=20)**

PART - B

5. What are the features of social forestry and agroforestry? Discuss that agroforestry is a promising alternative to the traditional cropping pattern. **(10+10=20)**
6. Differentiate between the following terms: **(5×4=20)**
 - (a) Soil texture and soil structure.
 - (b) Soil fertility and soil productivity.
 - (c) Green Manuring and biofertilizers for crop production.
 - (d) Minimum tillage and zero tillage.
7. Explain various soil conservation methods and integrated watershed management approach. What is soil erosion? Discuss the methods of managing soil erosion. **(20)**
8. What are the effects of industrial effluent on soil and water? Give the suitable strategies for management of soil and water pollution. **(10+10=20)**

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