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**CS-78/06**  
**AGRICULTURE**  
**Paper-I**

**Time : 3 Hours ]**

**[ Full Marks : 300**

- Note :** (1) Candidates should attempt Question No. 1 from Section–A and Question No. 5 from Section–B which are compulsory, and **any three** of the remaining questions, selecting at least one from each Section.
- (2) **All** questions carry equal marks.

**SECTION – A**

1. Write short notes on any **three** of the following in about **200** words each: **20 × 3 = 60**
  - (a) System of Rice Intensification (SRI)
  - (b) Integrated weed management
  - (c) Agro-forestry
  - (d) Watershed management
2. What do you understand by soil health ? Describe different practices for maintenance of soil health. **60**
3. Define fertilizer use efficiency (FUE). Describe different formulae used for calculation and expression of FUE and the techniques for increasing FUE. **60**
4. Describe different criteria used for scheduling of irrigation with advantages and limitations. List out the techniques for increasing water use efficiency. **60**

**SECTION – B**

5. Write short notes on any **three** of the following in **200** words each : **20 × 3 = 60**
  - (a) Scope and Characteristics of farm management in India
  - (b) Causes and Consequences of different types of land degradation
  - (c) Marketing channel and Price spread for perishable commodities
  - (d) Importance and Methods of technology transfer in agriculture.

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6. What do you mean by 'Common Pool Resources' ? How adverse climatic factors affect the crop production and how this problem could be overcome ? How different types of pollutants are hazardous to crops, animals and humans ? How environmental pollution could be minimized ? 60
7. Explain the agricultural price policy of the Union Government. Describe the structure and functioning of credit co-operatives engaged in agricultural development. Explain the genesis of World Trade Organization and significance of Intellectual Property Rights in agricultural development 60
8. Describe the special features of rural employment generation programmes implemented by the Union Government. What are the merits and demerits of farm mechanization in India ? Explain how 'training' as a tool helps in transfer of technology in agriculture. What are the problems faced by agricultural extension workers involved in transfer of technology in India ? 60
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