

IAS Mains Agriculture 1993

Paper-I

Section A

1. Write short critical notes in 200 words each on any three of the following
 - a. Barrenland Vs wasteland
 - b. Ley farming Vs alley cropping
 - c. Soil drought Vs atmospheric drought
 - d. Phosphate fixation Vs phosphorus retention
2. What do you understand by integrated nutrient management? How would the system approach help in crop production under different cropping systems?
3. What is ecosystem and its components? What adverse effects may occur if there is any disturbance to the ecosystem?
4. How may excess soil water conditions develop in agricultural land? Discuss the effects of excess soil water conditions on crop growth. Suggest suitable measures including selection of crops and cropping system under excess soil water conditions.

Section B

5. Write short critical notes in about 200 words on any three of the following:
 - a. Nitrogen cycle
 - b. Foliar application of nutrients
 - c. Soil amelioration
 - d. Water requirement of crop
6. What is farm planning and what are its objectives? What are the principal characteristics of a good farm plan?
7. How does cropping pattern affect the weed flora? Discuss the management approach under sequential cropping.
8. Give a brief history of development of agricultural extension system in India. Do you think that there is scope to improve the present system of technology transfer? What is the role of T & V system in agricultural extension?