

IAS Mains Agriculture 2006

Paper-I

Section A

1. Write short notes on any three of the following in about 200 words each: ($20 \times 3 = 60$)
 - a. Organic farming
 - b. Soil structure and steps for development
 - c. Cropping and farming system
 - d. Weed control in wheat
2. Describe the principles and limitations of dryland farming. Suggest suitable technologies based on watershed management to enhance crop production under such conditions (60).
3. How does the nitrogen become available to plants when urea is applied to soil? Briefly write on nitrogen use efficiency under submerged paddy conditions (60).
4. Write in tabular form seed rate, sowing time, fertilizer schedule, irrigation management and average yield of barley, cotton, lentil, sugarcane, oat and toria crops for higher production (60).

Section B

5. Write short notes on any three of the following in about 200 words each: ($20 \times 3 = 60$)
 - a. Accelerated erosion
 - b. Scheduling irrigation
 - c. Production function
 - d. Extension-teaching methods
6. What is sustainable agriculture? Give its limitations and strategies to achieve food security for the 21st century (60).
7. Discuss farm planning with the principal characteristics of a good farm plan. How is it helpful in farm operation to Indian farmers (60)?
8. Describe the role of co-operative marketing to Indian farmers. Give its main functions and the reasons of slow progress in India (60).