

IAS Mains Agriculture 1994

Paper-I

Section A

1. Write short critical notes in about 200 words each on any three of the following:
 - a. Crop ecology
 - b. Multiple cropping
 - c. Horti-pastoral system
 - d. Organic farming
2. Why is the yield of pulse crops low compared to cereals? Suggest suitable measures to improve pulse production in the country. Write major package of practices for increasing production in arhar and gram.
3. What is crop-weed competition? How does integrated weed management approach help in crop production under different cropping systems? Mention weedicides commonly used and their methods of application in direct seeded and planted rice crop.
4. How does mineralization of nitrogen compounds place in the soil? What are the factors affecting these ones in soils?

Section B

5. Write short critical notes in about 200 words each on any three of the following:
 - a. Shelter-belt plantation
 - b. Water use efficiency
 - c. Farm budgeting
 - d. Lab to land programme
6. What is water erosion? Write its mechanism and factors affecting water erosion. Suggest proper agronomic measures for soil and water conservation.
7. How can stability of production be achieved in dryland agriculture to meet the foodgrain requirement of increasing population in India? Explain the watershed approach considering a major solution to the problem.
8. Is farm management essential to Indian farmer? Describe its scope and importance along with major characteristics