

IAS Mains Agriculture 1990

Paper-I

Section A

1. Write short critical notes in not more than 200 words each, on any three of the following:
 - a. Microclimate.
 - b. Carbondioxide enrichment.
 - c. Multiple cropping patterns.
 - d. Selective herbicides.
2. Describe specific and distinguishable visual symptoms of deficiency and toxicity of nutritional disorders in the rice plants.
3. Agriculture is largely rainfed in Southern Plateau. Suggest a multi-pronged approach for raising productivity, reducing unemployment and poverty and ensuring stability in rural incomes.
4. Sugar production has to be stepped up by five million tonnes in the next ten years. Discuss specific measures to be followed for achieving the target.

Section B

1. Write short critical notes in not more than 200 words each, on any three of the following:
 - a. Ecofarming
 - b. Shelterbelts
 - c. Micro-irrigation
 - d. Use of gypsum for groundnut.
2. What are the unique features of pulse crops which make them indispensable, if not difficult to replace? Discuss the constraints to the production of pulse crops and suggest ways and means of overcoming them.
3. Discuss the differences between the traditional and modern approaches to tillage. What are the problems of tillage research?
4. What is the need for changing the concept of 'Lab to Land' to 'Farmer First' What are the roles of an agricultural scientist and farmer, in these two concepts?