

# IAS Mains Agriculture 1992

## Paper-I

### Section A

1. Write short critical notes in 200 words each on any three of the following:
  - a. Cropping System vs. Farming System.
  - b. Bio fertilizer vs. Coated fertilizer
  - c. Contour bunding vs. Terracing
  - d. Mixed cropping vs. Relay cropping.
2. What are the characteristics of acidic soil? Explain the behaviour and its management of major nutrients in acidic soil-both in upland and submerged conditions.
3. Write down the criteria of essentiality of element. In what ways does soil fertility differ from soil productivity?
4. What is crop weed competition? What is the significance of critical period of weed control? Critically assess the use of herbicides in weed control in rice and wheat.

### Section B

5. Write short critical notes, in each about 200 words, on any three of the following:
  - a. Agro-Silvi-pastorial system
  - b. Return above variable cost (RAVC)
  - c. Nitrogen fixation by legume
  - d. Evapo transpiration.
6. Is there any difference between dryland and rainfed agriculture? What are the major steps required for successful and sustainable rainfed agriculture?
7. Define water shed, basin and catchment. What are the factors and steps involved in water shed management?
8. 'Demonstrations builds confidence' -Justify the statement and write the types of demonstrations.