

# Agriculture

## Paper-I

**Time Allowed: Three Hours**

**Maximum Marks: 300**

- Note:* 1. The figures in the margin indicate full marks for the questions.
2. Candidate should answer questions No. 1 and 5 which are compulsory and any **three** of the remaining questions, selecting at least **one** from each section.

### SECTION – A

1. Write notes on any **five** of the following in not more than **120** words each:
- 12×5=60
- (a) Processes of soil formation
  - (b) Criteria for irrigation scheduling
  - (c) Principles of soil fertility
  - (d) Need of farm mechanization in agriculture
  - (e) Environmental pollution and associated hazards on crops
  - (f) Factors affecting run-off in a watershed
  - (g) Agro-forestry and its types
2. What do you mean by sustainable agriculture? Explain important technologies for sustainable management and conservation of natural resources. 60
3. Define farming system and describe different types and systems of farming in India. 60
4. Give a detailed account of Package of Practices of any **one** of the following crops: 60
- (a) Sugarcane
  - (b) Maize
  - (c) Paddy

## SECTION – B

5. Write notes on any **five** of the following in not more than **120** words each:

12×5=60

- (a) Classification of farmers based on land availability
  - (b) Concept of multiple cropping
  - (c) Principles of dryland agriculture
  - (d) Lab to Land Programme
  - (e) Chemical control of weeds
  - (f) Discuss in short the type and systems of farming
  - (g) What is training? Describe in brief the training programmes initiated by Central and State Governments for extension workers in India
6. What do you mean by evaluation? Explain different methods for evaluation of extension programmes. 60
7. Elaborate on various methods to enhance water use efficiency in relation to crop production. 60
8. How the principle of equimarginal returns helps the farmer in growing different crops on his farm? 60