

# COMBINED COMPETITIVE EXAMINATION (MAIN)

## AGRICULTURE

### Paper—I

Time : 3 hours

Full Marks : 200

**Note :** (1) The figures in the right-hand margin indicate full marks for the questions.

(2) Attempt **five** questions in all.

(3) Question No. 1 is compulsory.

1. Answer any ten of the following :

4×10=40

- (a) Discuss some scientific approaches to manage a sustainable ecosystem.
- (b) What is meant by cropping pattern? Discuss the importance of multiple cropping in relation to food production.
- (c) Explain the differences between agroforestry and natural forest.
- (d) Describe the package of practices for production of mustard.
- (e) Give a brief account of biological weed control.
- (f) Describe the mechanisms involved in symbiotic nitrogen fixation.
- (g) Define 'dryland agriculture'. Discuss the problems associated with it.
- (h) What is water use efficiency of a crop? Discuss the method of drainage from waterlogged soil.
- (i) How are farm planning and budgeting important in rural economy of India?
- (j) Describe the different extension activities related to 'lab to land' programme in Arunachal Pradesh.
- (k) Give a brief account of classification of Indian soil.
- (l) Discuss some detrimental effects of environmental pollution associated with crop production.

