

AGRICULTURE (Paper I)

Time Allowed : Three Hours

Maximum Marks : 300

QUESTION PAPER SPECIFIC INSTRUCTIONS

(Please read each of the following instructions carefully before attempting questions)

There are EIGHT questions divided in two Sections.

Candidate has to attempt FIVE questions in all.

Question Nos. 1 and 5 are compulsory and out of the remaining, any THREE are to be attempted choosing at least ONE question from each Section.

All questions carry equal marks.

Wherever any assumptions are made for answering a question, they must be clearly indicated.

Word limit in questions, wherever specified, should be adhered to.

SECTION 'A'

1. Write short critical notes in about 200 words each on any three of the following:
 - (a) Agro-forestry
 - (b) Cardinal temperature
 - (c) Cropping system
 - (d) Lodging in cereal
2. Write the characteristics and the process of formation of saline and alkali soils. How these soils can be cultivated for efficient crop production?
3. Enumerate the ill-effects of weed competition in field crops and briefly describe the methods of their control.
4. Describe critically the following:
 - (a) Ratooning in sugarcane
 - (b) Unstability in pulse production
 - (c) Nitrogen fixation in legume

SECTION 'B'

5. Write short critical notes in about 200 words each on any three of the following:
 - (a) Soil fertility evaluation
 - (b) Cooperative marketing
 - (c) Wasteland management
 - (d) Agricultural extension training
6. Discuss the sources of water logging and its effect on soil physical conditions. Explain the techniques of scheduling irrigation in field crops.
7. Describe the technological changes required for stability of crop production under rainfed agriculture. Also explain measures to be adopted to achieve the food production by 2000 A.D.
8. Discuss farm management and its problem under Indian conditions. What are typical farm management decisions required by the farmers of large size holdings?