

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 notes on any three of the following in about 200 words each:
 - (a) Soil pollution
 - (b) Retting in jute
 - (c) Sugarcane ratooning
 - (d) Agroforestry
2. Give in tabular form the varieties, spacing and row proportion, fertilizer and irrigation schedules of
 - (a) sugar + wheat
 - (b) potato + mustard
 - (c) cotton + green gram.
3. Define plant ecology. Discuss the role of autotoxicity in crop production.
4. Differentiate fertilizer-use-efficiency and fertilizer-utilization-efficiency. Discuss the important agrotechnique for increasing fertilizer-use-efficiency in rice in sandy loam soil.

SECTION 'B'

5. Write short notes on any three of the following in about 200 words each:
 - (a) Water logging
 - (b) Watershed management
 - (c) Soil moisture depletion approach
 - (d) Training and visit system
6. Define dryland agriculture. Discuss the agro-techniques for stabilizing production under such condition.
7. Define maximum economical yield (MEY). Describe the important inputs and operations in wheat after toria.
8. Give a list of non-monetary input Technology for small and marginal farmers in India. Discuss any four of them in detail.