

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 in about 200 words each on any three of the following:
 - (a) Production Economics
 - (b) Producer's Surplus
 - (c) Integrated Nutrient Management
 - (d) Role of Agricultural Extension
2. What are the advantages and principle characteristic of farm planning? Name the different techniques which can be used for farm planning under ideal conditions.
3. Suggest suitable measures for evergreen revolution on sustainable basis to meet food and nutritional requirements in the new millenium.
4. Discuss the criteria for scheduling irrigation in field crops. Give their merits and demerits also.

SECTION 'B'

5. Write short notes in about 200 words each on any three of the following:
 - (a) Crop Diversification
 - (b) Azolla as Bio-fertilizer
 - (c) Land Equivalent Ratio
 - (d) Wind Erosion
6. Why is rice-wheat cropping sequence considered important among other crop sequences in the country? Describe briefly the limiting factors and remedial measures associated with this crop sequence for their higher production.
7. Give in tabular form sowing time, seed rate, spacing, fertilizer and irrigation schedules of paddy, wheat, pigeon pea, mustard, linseed and berseem for their higher productivity.
8. Write the role of dryland agriculture and its problems. Briefly describe the suitable technologies for increasing and stabilising agricultural production from such areas on watershed basis.