

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) Organic farming
 - (b) Allelopathy
 - (c) Recent methods of line sowing
 - (d) Price fluctuation
2. Define intercropping. Give the definition of different systems of intercropping each with 3 examples. Discuss the effect of component crops on each other.
3. What do you mean by IPNM? Discuss it in the context of rice-wheat cropping system.
4. Write comments on the following:
 - (a) Intercropping of sugarbeet with sugarcane
 - (b) Summer sown pigeonpea-wheat rotation
 - (c) N-application in submerged soils in rice
 - (d) Wheat after potato and wheat with potato

SECTION 'B'

5. Write short notes in about 200 words each on any three of the following:
 - (a) Agro-techniques for stabilising crop production in rainfed conditions
 - (b) Scope of agro-forestry
 - (c) Farm planning
 - (d) Methods of evaluation of extension programmes
6. Discuss the different approaches of scheduling irrigation in field crops. Give your opinion about the scope of: drip and sprinkler irrigation in field crops.
7. Prepare a production plan for a family farm of 0.5 hectare having four fields irrigated by hired tubewell water in which domestic needs govern the cropping system
8. Differentiate between the following:
 - (a) Soil fertility & productivity
 - (b) Relative & Obnoxious weeds

- (c) Synergistic and Legume effect in crops
- (d) Maximum yield and Maximum economic yield