

2021

AGRICULTURE

PAPER-I

Time Allowed — 3 Hours

Full Marks — 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

*Answers may be given either in **English** or in **Bengali** but all answers must be in one and same language.*

Group-A

Answer any three questions.

1. (a) What do you mean by physical features and climate? 10
 (b) Discuss in short crop yield formulation. 10
 (c) Write in short long range forecasts of weather and crop yields. 10
 (d) Write down the agro-climatic zones in India. 10
2. (a) What do you mean by cropping pattern? 10
 (b) Discuss in brief the present cropping patterns. 10
 (c) Write down the rice based cropping in West Bengal. 10
 (d) Discuss about Mixed cropping in India. 10
3. (a) What do you mean by fibre crops? Write down the names of fibre crops cultivated in India. Write down the cultivation of improved methods jute cultivation. What are the problems faced by the farmers for jute retting? 20
 (b) Describe different methods cultivation of improved yield varieties of rice by farmers of West Bengal. 20
4. (a) Describe in brief the natural powers of weeds. 10
 (b) Discuss in details types of weeds found in the field. 15
 (c) Describe in brief crop-weed competition. 15
5. (a) Define soil. 5
 (b) Describe the process and factors of soil formation. 20
 (c) Discuss in details problems of soil. 15

Group-B

Answer *any two* questions.

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| 6. (a) Critically discuss about plant nutrition and soil plant system. | 20 |
| (b) Discuss plant nutrients and their function. | 20 |
| 7. (a) Critically discuss in details importance and role of Agriculture-extension for rural development. | 20 |
| (b) Discuss role of Krishi Vigyan Kendra in transfer of technology. | 20 |
| 8. (a) Critically discuss functions of agricultural marketing. | 20 |
| (b) Critically discuss the marketing improvements for getting proper market price of the farmers. | 20 |
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