P.T.O.

## 2017 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 <u>English</u> or in <u>Bengali</u> but all answers must be in one and the same language.

## GROUP-A

## Answer any three Questions.

|    |       | Answer any three questions.  |                  |
|----|-------|--|------------------|
| 1. | a)    | What is soil ? Define.   | 5 -> 75          |
|    | b)    | State the factors of soil formation.   | 10 -> 150        |
|    | c)    | Describe in brief about soil structures.   | 15->925          |
|    | d)    | State the importance of soil structure in agriculture.   | 10 → 15°         |
| 2  | a)    | Describe different male de Contraction de la con | 10               |
| 40 | a)    | Describe different methods of soil and water conservation.   | 00               |
|    | b)    | Briefly describe about dry farming in India.   | 20               |
| 1  | 1     |  | 20               |
| 1. | (E)   | Explain the role of Climate and Weather on Crop production.  |                  |
|    | 10    | What is green house effect?  | 10               |
|    | 0     | What is your prediction about agricultural practices   | 10               |
|    | /     | with climate change.   | 10               |
|    | ,d)   | State the applications of Remote sensing in agriculture.   |                  |
| ,  | ,     | -> Resource me   | 10<br>votage     |
| 4. | ) Day | Why weed management is necessary in plant protection.  |                  |
|    | 101   | What are the different types of Chemical methods of  | Elance of Spice  |
|    | 1     | Weed management. Readless Phe sound by Folians &   | 15               |
|    | 91    | What is Weed Ecology? How Weed are related to Soil, Crop and Climate.  | -> Non-selective |
|    |       | -> Allela  |                  |
| 5. | a     | What do you mean by agroforesty?   | mined, tillage   |
| /  | 20)   | State the role of agro-forestation for the mitigation of Climate change.   | 3                |
|    | es    | Describe in brief about soil erosion.  | 15               |
|    | d)    | Write the role of agro-foresty for the control of  | 10               |
|    |       | soil erosion.  | 10               |
|    |       | GROUP-B  |                  |
|    |       | Answer any two Questions.  |                  |
| 6. | a)    | What is rainfed agriculture ?  | •                |
|    | b)    | What is the difference between rainfed agriculture and dry farming.  | 6                |
|    | c)    | Briefly describe about the different types of rain water harvesting and recharge of groundwater.   | 12               |
|    | d)    | What is your views about agricultural practice in rainfed areas of West Bengal.  | 12               |
|    | For   | Guidance of WBCS (Exe.) etc. Preliminary, Main Exam and Interview,   | 10               |
|    |       | Mat, Mock Test, Guided by WBCS Gr-A Officers, Online and Classroom,  |                  |
|    |       |  |                  |

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## 2 || ||

| 7.    | Write short notes on the following topies (any Five).                 |     |
|-------|---|-----|
| al Ye | Soil fertility and procuctivity.                                      |     |
| by of | Role of P in agriculture.   |     |
| 1 %   | Biofertilizers.   |     |
| (a)   | Role of IT in Indian agriculture.                                     |     |
| f)    | Precision farming.  |     |
| f)    | G.I.S.  |     |
| h)    | Global Warming.   |     |
| h)    | Crop, insurance.  | 8x5 |
| 8. 2  | Write in brief about role of KVK in technology transfer.              | 15  |
| (6)   | State the role of mass media for the development of agriculture.      | 10  |
| el    | State the function and importance of self-help groups in agriculture. | 10  |
| (d)   | State the importance of cold storage in agriculture.                  | 5   |