

2016

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 written in either English or in Bengali but all answers must be in one and in same language.

### Group A

Answer any three questions

1. Explain the role of climate and weather on crop production. Define green house effect and global warming. Express your views on the effect of modern agricultural practices on climate change. Discuss in detail on the use of remote sensing technology in agriculture. 10+8+12+10=40
2. Define cropping system, cropping pattern and farming system. Point out the principles of cropping system. What are the main cropping patterns of new alluvial and coastal saline zones of West Bengal? What are the scopes and limitations of adopting diversified cropping in West Bengal? 12+8+10+10=40
3. Tabulate the conventional package of practices of rice grown during three different seasons in West Bengal. Discuss in brief the SRI technique. Write down scope of growing rabi maize under West Bengal situation. 25+8+7=40
4. What do you mean by soil and water conservation? Discuss in details on the methods of soil and water conservation. Explain the role of agro-forestry in such conservation methods. 8+20+12=40
5. Write short notes on: (any five) 8x5=40
  - a) Precision agriculture
  - b) Organic farming
  - c) Farm planning and budgeting
  - d) Vermi-compost
  - e) Jute retting
  - f) Rain water harvesting

**Group B****Answer any two questions**

1. Write in detail on the role of KVK in technology transfer system. Discuss critically the functions of different mass media in agricultural development. Enumerate the livelihood management strategy through self-help group in the domain of agriculture and allied sectors. 10+15+15=40
  2. Write down the criteria of essentiality of plant nutrients. Tabulate the plant nutrients as per their classification. Enumerate the role of these nutrients in plant growth and development. Write down the symptoms of deficiency and toxicity of these nutrients in plants. What is Steenberg effect? 5+5+18+10+2=40
  3. Write short notes on: (any five) 8x5=40
    - a) Dry land farming
    - b) Cold storage and public distribution system
    - c) Evaluation of extension programme
    - d) Role of IT in Indian Agriculture
    - e) Crop insurance
    - f) PPP model
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Study Mat, Mock Test, Guided by WBCS Gr A Officers , Online and Classroom,  
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