

WBCS MADE EASY

2023

MWC(O)-AG-I/23

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 the same language.*

Group A

Answer any three questions.

1. (a) Define the following with examples: (i) Crop sequence, (ii) Cropping intensity, (iii) Crop rotation, (iv) Paira cropping, and (v) Inter cropping. 3×5=15
(b) Make three suitable crop sequences (at least 3 crops in a year) under West Bengal condition. 6
(c) Why do you suggest to include leguminous crops in crop sequence? 5
(d) Discuss on different agro-forestry system. Why social forestry is important in rural areas? 10+4=14
2. (a) Discuss on rice cultivation during *kharif* season in West Bengal with special reference to land preparation, sowing / planting, variety, nutrient management, weed control, harvesting and yield. 30
(b) Why the yield of *boro* rice is higher than *kharif* rice? 5
(c) Make a list of pulses and oilseeds with their growing seasons in West Bengal. 5
3. (a) Mention the role and deficiency symptoms of macro nutrients on plants. 10
(b) Write short notes on bio-fertilizers (any two): 5×2=10
(i) *Azolla*, (ii) *Azospirillum*, (iii) Phosphate solubilizing bacteria (PSB) 8
(c) What do you suggest for reclamation of acid soil and saline soil? 8
(d) Classify weeds with examples. Make a list of herbicides with dose, time of application and crops. 5+7=12
4. (a) Discuss on jute cultivation with special reference to sowing, variety, weeding, cropping system, harvesting, retting and yield. 20
(b) Write a short note on grading of jute and its relation with minimum support price. 10
(c) Discuss on mechanization in farming with special reference to powertiller, paddy transplanter, combine harvester and drone. What is custom hiring centre? 8+2=10
5. (a) Discuss on methods and systems of irrigation. Mention the criteria for scheduling irrigation. How water use efficiency can be improved in crop production system? 20+5+5=30
(b) Differentiate between: 5×2=10
(i) Dryland farming vs. Rainfed agriculture, and (ii) Green manure vs. Organic manure

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Group B

Answer *any two* questions.

6. (a) Discuss on agro-climatic zones of West Bengal with reference to area, soil, climate and important crops. 20
(b) Classify weather forecasting along with their importance in agriculture. Mention the rôle of print, electronic and social media in weather agro-advisory service. 10+10=20
7. (a) Discuss on the role and scope of information technology in Indian agriculture. 14
(b) Mention the rôles of public distribution system in food security. 12
(c) Discuss on agro-processing and cold storage. 7+7=14
8. Write short notes on (any five): 8×5=40
(a) SHG in agriculture
(b) Remote sensing
(c) Organic certification
(d) Crop insurance
(e) Forest products
(f) Krishi Vigyan Kendras (KVKs) in West Bengal
(g) Soil formation
(h) Marketing intelligence

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