

2022

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. Define intercropping as compared to pure cropping. State the advantages of intercropping. What is suitable cropping system? State the soil and water management in cropping system.  
10+10+10+10=40
2. (a) Describe the factors and process of soil formation.  
(b) Describe in details, about the problem of soils and their management. (10+10)+20=40
3. (a) Describe different methods of cultivation of improved varieties of rice.  
(b) Discuss about macro-nutrients and their functions. 20+20=40
4. Differentiate between a weed and crop. Discuss the special characteristics of weed. Classify weeds based on ontogeny, origin and morphology with example. Discuss weed management in transplanted rice and potato crop. 10+10+10+10=40
5. (a) Write in brief, the factors affecting water use efficiency.  
(b) Mention the strategies that increase water use efficiency.  
(c) Give a schematic diagram of methods of irrigation.  
(d) Mention the different parameter which are considered for judging the suitability of water for irrigation. 10+10+10+10=40
6. (a) "All weeds are plants but all plants are not weeds." — Discuss with suitable example.  
(b) Discuss why it is easier to control weeds in winter and summer rice than Autumn rice.  
(c) State why preventive methods of weeds management is always better than control.  
(d) Discuss why chemical method of weed management is gaining importance day by day than other methods of weed management. 10+10+10+10=40

## Group-B

Answer any two questions.

7. Write notes on any four : 10×4=40
  - (a) Global warming
  - (b) Precision farming
  - (c) Geographic Information System (GIS)

28909

For guidance of WBCS Prelims , Main Exam and Interview by WBCS Gr A Officers/ Toppers, WBCS Prelims and Main Mock Test (Classroom & Online), Optional Subjects, Study materials, Correspondence Course etc. Call WBCSMadeEasy™ at 8274048710 / 8585843673 or mail us at [mailus@wbcsmadeeasy.in](mailto:mailus@wbcsmadeeasy.in). Download WBCS MADE EASY app from play store. (We offer guidance and mock test for Clerkship, Miscellaneous and other WBPSC Exams. too by WBCS MADE EASY LITE) Visit [www.wbcsmadeeasy.in](http://www.wbcsmadeeasy.in)

Please Turn Over

# WBCS MADE EASY

CSM(O)-AG-I/22

( 2 )

- (d) Acid soil
  - (e) Dryland farming
  - (f) Biofertilizers
8. (a) Describe the principle and methods of agriculture extension.  
(b) Describe the role of Krishi Vigyan Kendra in transfer of technology for rural development.  
20+20=40
9. (a) What is the difference between fertility and productivity?  
(b) Write note on Acid sulphate soil.  
(c) Write notes on different agro climatic zones of India.  
(d) Discuss about mixed cropping in India.  
5+5+20+10=40
- 

For guidance of WBCS Prelims , Main Exam and Interview by WBCS Gr A Officers/ Toppers, WBCS Prelims and Main Mock Test (Classroom & Online), Optional Subjects, Study materials, Correspondence Course etc. Call WBCSMadeEasy™ at 8274048710 / 8585843673 or mail us at [mailus@wbcsmadeeasy.in](mailto:mailus@wbcsmadeeasy.in). Download WBCS MADE EASY app from play store. (We offer guidance and mock test for Clerkship, Miscellaneous and other WBPSC Exams. too by WBCS MADE EASY LITE)  
Visit [www.wbcsmadeeasy.in](http://www.wbcsmadeeasy.in)