



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 1st Semester Examination, 2020, held in 2021

**ARDACOR01T-AGRICULTURE AND RURAL DEVELOPMENT (CC1)**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

1. Answer any **five** questions from the following: 2×5 = 10
- (a) What is Cation exchange capacity of soil?
  - (b) What is INM?
  - (c) State two varieties of paddy and two varieties of pulse crop.
  - (d) What is the difference between particle density and bulk density of soil?
  - (e) Name one nitrogenous fertilizer and one mixed fertilizer.
  - (f) What is crop rotation?
  - (g) What is soil acidification?
  - (h) Name two Central Agricultural Research Institutions along with their location.
2. Answer any **four** questions from the following: 5×4 = 20
- (a) Write a short note on chemical properties of Soil. 5
  - (b) Classify different types of chemical fertilizers. 5
  - (c) Write a short note on organic manure. 5
  - (d) Write about soil texture, structure and porosity. 5
  - (e) Classify different types of crops. 5
  - (f) Describe the effect of microorganisms in soil health. 5
  - (g) Name any two varieties of rice. Describe the seed rate, land preparation and irrigation system of a rice field. 1+4 = 5

3. Answer any *one* question from the following: 10×1 = 10
- (a) Classify different agro-climatic zones in India mentioning the land type, soil type, climate and main crops.
  - (b) Briefly describe the package of practice of jute cultivation considering selection of soil, field preparation, variety selection, seed rate, seed treatment, fertilizer management, irrigation, pest management and harvesting.

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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