Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Sc.Hons. (Agriculture) (Sem.-5)
SYSTEM SIMULATION AND AGRO-ADVISORY

Subject Code: BSAG-523-19 M.Code: 90959

Date of Examination: 06-01-2023

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) Limited nutrients conditions
- b) Weather forecasting
- c) Modelling techniques
- d) Crop growth models
- e) Crop weather calendars
- f) System boundaries
- g) Crop-weather calendar
- h) System simulation
- i) Crop models
- i) Limited moisture conditions

1 M-90959 (S2)-1581

SECTION-B

- 2. Explain crop production in limited moisture and nutrients conditions.
- 3. Explain system approach for representing system boundaries.
- 4. Discuss the components of soil water and nutrients balance.
- 5. Discuss in detail about elementary crop growth models.
- 6. Explain system approach for representing soil-plant-atmospheric continuum.

SECTION-C

- 7. Explain in detail about preparation of agro-advisory bulletin based on weather forecast.
- 8. Discuss the types, methods, tools and techniques of weather forecasting.
- 9. Describe the potential and achievable crop production concept and modelling techniques.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M-90959 (S2)-1581