



PG
M.SC. SEMESTER-I EXAMINATION, 2023
(AGRICULTURE) IN AGRONOMY
PAPER: AGRON 505
(CONSERVATION AGRICULTURE)

Full Marks: 50

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

1. Answer any FIVE questions from the following: 2 X 5 = 10

- a. Why CA is useful?
- b. Write the objectives of CA.
- c. Define CET.
- d. What is puddling?
- e. Define zero tillage.
- f. Give botanical names of any five erosion control grasses.
- g. What do you mean by agroforestry?
- h. Define benefits of multi-storied cropping.

GROUP-B

2. Answer any FOUR questions from the following: 5 X 4 = 20

- a. Explain major issues in adapting CA in India.
- b. Discuss any two CET with their merits and demerits.
- c. What are the roles of agroforestry in Indian agriculture?
- d. Explain *kerā* and *pora* method of sowing.
- e. Explain the advantages of multi-storied cropping in agroforestry.
- f. What are the major problems in the adaptation of agroforestry?
- g. Briefly explain the residue burning and its impact on environment.
- h. Suggest different strategies to reduce carbon foot print.

GROUP-C

3. Answer any TWO questions from the following: 10 X 2 = 20

- a. Discuss status of conservation agriculture in the Indian & Global scenario.
- b. Explain merits and demerits of CA in modern agriculture.
- c. Briefly discuss the potential of CA in dryland agriculture system. What are the major issues against adaptation of CA in rainfed agriculture? 6+4
- d. Explain the roles of agroforestry? Classify agroforestry? Briefly describe the merits of agroforestry? 3+2+5
