

**M.Sc. Semester-I Examination, 2022
(AGRICULTURE) IN AGRONOMY**

PAPER: AGRON 503

(PRINCIPLES AND PRACTICES OF WEED MANAGEMENT)

Full Marks: 50

Time: 2 Hours

GROUP-A

1. Answer any FIVE questions from the following:

2 X 5 = 10

- a. Define weed.
- b. Name (Botanical name) two dicot and monocot weeds.
- c. Define critical crop weed competition period?
- d. Write the dispersion mechanism of weed?
- e. Explain allelopathy.
- f. Discuss principles of crop weed competition.
- g. Explain bio-herbicide and botanical herbicide.
- h. Give three examples of each pre-emergence and post-emergence herbicide.



GROUP-B

2. Answer any FOUR questions from the following:

5 X 4 = 20

- a. Classify weeds according to ontogeny.
- b. Classify weeds according to place of occurrence.
- c. Classify weeds according to cotyledon.
- d. What are the general principles of crop weed competition?
- e. Discuss two above ground and two below ground competition factors.
- f. Explain any five factors which influence competition.
- g. What do you understand by invasive weed?
- h. Discuss about advantages of pre planting herbicide.

GROUP-C

3. Answer any TWO questions from the following:

10 X 2 = 20

- a. Define herbicide. Discuss history of organic and inorganic herbicide development.
What is auto-toxicity? (2+3+3+2)
- b. Discuss any five characteristics of an ideal herbicide. Discuss usefulness of herbicides.
What are the limitations of herbicides? (5+2.5+2.5)
- c. Differ contact and translocated herbicide. Based on time of application classify herbicide. (4+6)
- d. Name five group herbicides and their mode of action, with example.