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M.SC. SEMESTER-I EXAMINATION, 2023

(AGRICULTURE) IN AGRONOMY

PAPER: AGRON 503

(PRINCIPLES AND PRACTICES OF WEED MANAGEMENT)

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**

- Write difference between weed control and weed management.
- Discuss critical crop weed competition period (CCWCP).
- Write botanical name of two dicot and monocot weeds of high density.
- Explain the dispersion of weed flora?
- What is allelopathy? Give example.
- Discuss the principles of crop weed competition.
- What do you understand by auto-toxicity?
- Give two examples of each pre-emergence and post-emergence herbicides.

GROUP-B**2. Answer any FOUR questions from the following: 5 X 4 = 20**

- Classify weeds according to ontogeny.
- Classify weeds according to place of occurrence.
- Classify weeds according to cotyledon.
- What are the general principles of *Cyperus rotundus* control.
- Explain two above ground and two below ground competition factors.
- Discuss any two biological control.
- What is invasive weed? Give examples.
- Discuss about the advantages of using pre-planting herbicide.

GROUP-C**3. Answer any TWO questions from the following: 10 X 2 = 20**

- Define herbicide. Discuss history of organic and inorganic herbicide development.
Explain bio herbicide and botanical herbicide. 2+3+3+2
- Discuss any five characteristics of an ideal herbicide. Discuss usefulness and limitations of non-crop herbicides. Write the criteria of safe use of glyphosate. 4+2+2+2
- Name five group herbicides and their mode of action, with example. 4+6
- Differ contact and translocated herbicide. Based on time of application classify herbicide.
