

2025

**M.Sc. in Agriculture  
1st Semester Examination**

**AGRONOMY**

**Paper : AGRON-503**

**[Principles and Practices of Weed Management]**

**Full Marks : 70**

**Time : Two Hours**

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**Group - A**

**Answer any *five* questions :                      2×5=10**

1. Define weed.
2. Write the difference between weed control and weed management.
3. Write the botanical names of two dicot and two monocot weeds.
4. What is critical crop-weed competition period (CCWCP)?
5. What is allelopathy? Give one example of allelochemical.

**P.T.O.**

( 2 )

6. Give two examples of pre-emergence herbicides.
7. What do you mean by antidote?
8. Define selective herbicides with an example.

**Group - B**

Answer any *four* questions :  $5 \times 4 = 20$

9. Classify weeds according to ontogeny with suitable example.
10. Explain two above-ground and two below-ground competition factors.
11. Write any five factors influencing crop-weed competition.
12. What is an invasive weed? Give suitable examples.
13. Classify parasitic weeds with suitable examples.
14. Discuss on different kinds dormancy of weed seeds.

**Group - C**

Answer any *two* questions :  $10 \times 2 = 20$

15. Define herbicide. Discuss the history of organic and inorganic herbicide development. What is auto-toxicity?  
 $2+6+2$
16. Differentiate between contact and translocated herbicides. Classify herbicides based on their time of application.  
 $5+5$

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17. Name any five groups of herbicides citing examples.  
Discuss their mode of action. 6+4
18. Write down the principles of weed control. Discuss about  
the cultural practices for control measures of weed seeds  
in field crops.

**Internal Assessment : 20 marks**

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