

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: V	Term	: First	Academic Year	: 2024-25
Course No.	: ELE-AGRO 3510	Title	: Weed Management		
Credits	: 3 (2+1)				
Day & Date	: Tuesday, 22.10.2024	Time	: 14:00 to 17:00 hrs.	Total Marks	: 80
Note : 1. Solve ANY EIGHT questions from SECTION 'A'. 2. All questions from SECTION 'B' are compulsory. 3. All questions carry equal marks. 4. Draw neat diagram wherever necessary.					

SECTION 'A'

- Q.1 a) Give advantages and disadvantages of chemical method of weed control.
b) Explain in brief the factors affecting crop-weed competition.
- Q.2 a) Discuss the concept of Integrated Weed Management and explain in brief the recommended weed management practices for soybean.
b) What is Biological weed control? Write the characteristic of Bio-agents with examples.
- Q.3 a) Explain in brief the herbicide resistance and its management.
b) Define Herbicide selectivity and explain in short the factors affecting selectivity.
- Q.4 Classify the herbicides and explain in detail classification of herbicides according to their use and on the basis of time of application with suitable examples.
- Q.5 Enlist the different weed control methods and discuss in detail how the weeds can be managed with agronomical or cultural practices.
- Q.6 Explain in detail the mode of action of herbicides in plants with suitable examples.
- Q.7 Define Weed. Explain the harmful and beneficial effects of weeds in Agriculture.
- Q.8 a) Define Dissemination of weeds and write in detail about the agencies responsible for the dissemination of weeds.
b) What is Weed biology and describe the characteristics of weeds.
- Q.9 Explain in detail the classification of weed on the basis of their life cycle and association with crop.
- Q.10 Write short notes on (Any Four):
a) Control of aquatic weeds
b) Herbicide compatibility with other agrochemicals
c) Allelopathy effect
d) Adjuvants
e) Classification of herbicides according to formulation

(P.T.O.)

SECTION 'B'

Q.11 Fill in the blanks:

- 1) Weeds which produce seeds that are difficult to separate once mixed with crop seeds, are called _____ weeds.
- 2) The critical period of weed competition for the annual crops is _____ of the total duration.
- 3) Chemicals employed to improve herbicidal effects, are called _____.
- 4) The total annual loss of agricultural produce due to weeds in India is _____ %.
- 5) The active toxic material present in the herbicide formulation, is called _____.
- 6) _____ is the contact, non-selective and zero persistent herbicide in soil.
- 7) Parthenium weed is controlled biologically by using _____ beetle.
- 8) Flooding is worldwide crop husbandry method of controlling weeds in _____ crop.

Q.12 Do as directed:

- 1) Give any one example of noxious weed.
- 2) Name the parasite weed found in lucerne field.
- 3) Give the botanical name of '*Piwla Dhotra*' weed.
- 4) Application of herbicides after sowing of the crop; but before emergence of crop and weeds, is called pre-emergence application. (State True or False)
- 5) EC stands for _____.
- 6) State the basic principles of weed management.
- 7) State any two examples of smothering crops.
- 8) Define: Persistency of herbicide.

