

Weed Management (ASAG 2105)

Sec A (Long questions and short notes)

1. Fate of herbicides in soil
2. Write some harmful and beneficial effects of weeds.
3. Classify weeds based on morphology, association and nature of stem
4. What are the major weeds found in rice field? What is IWM and write the IWM for rice.
5. What are the advantages and disadvantages of herbicide usage in agriculture?
6. Briefly explain the cultural methods of weed control.
7. Briefly explain crop weed competition.
8. Translocation of herbicides in plants.
9. Briefly explain the biological methods of weed control.
10. Briefly explain about herbicide formulations.
11. Define allelopathy. Explain allelopathic effects of weeds on crops, crops on weeds, crops on crops and weeds on weeds with appropriate examples.
12. Write short notes on bio-herbicides.
13. Classify herbicides based on selectivity, mode of application and time of application.
14. Write short notes on residual effect of herbicides on plant and environment.
15. Briefly explain propagation and dissemination of weeds.

Sec B (Objective questions)

1. An unwanted plant, growing where it is not desired?

Ans. Weed

2. Such weeds, that are grown in cultivated field?

Ans. Obligate weeds

3. Cropped along with wild land weed are known as?

Ans. Facultative weeds

4. Problematic weed, whose seed once mixed with crop seed is extremely difficult to

separate?

Ans. Objectionable weed

5. Undesirable, troublesome weed difficult to control

Ans. Noxious weed

6. Mimicry weeds of rice and wheat is

Ans. Phalaris and wild rice

7. Weed that depends for its growth on its host plant?

Ans. Parasitic weed

8. Semi root parasitic weed of Sorghum and Sugarcane?

Ans. *Striga* spp.

9. Semi stem parasitic weed of Mango?

Ans. *Loranthus* spp.

10. The total root parasitic weed of Tobacco?

Ans. *Orabanche* spp.

11. The total stem parasitic weed of Lucerne?

Ans. *Cuscuta* spp

12. The off type crop varieties are

Ans. Rogue

13. Which of the following stages of a crop are more prone to weed competition?

Ans. Germination to seedling

14. What is the Critical Period of Crop-Weed Competition for transplanted rice?

Ans. 30-45 DAS

15. What is the Critical Period of Crop-Weed Competition for Upland rice condition?

Ans. Entire period of crop growth

16. What is the Critical Period of Crop-Weed Competition for sugarcane?

Ans. 30-120 DAS

17. The detrimental effect of one of higher plants on other higher plants is known as

Ans. Allelopathy

18. The practice of flushing out germinable weed seeds before crop sowing is called

Ans. Stale seed bed

19. Stale seed bed technique of weed control is a

Ans.Cultural method

20. 2, 4-D, Simazine, Atrazine and Fluchloralin belongs to the selectivity group

Ans.Selective herbicides

21. Diquat, Paraquat, Oxadiargyl and Glyphosate etc. belongs to the selectivity group

Ans.Non-selective herbicides

22. The herbicides applied 1 day before sowing/planting or just are comes under

Ans.Pre-plant incorporated (PPI) herbicides.

23. The example of PPI herbicides are

Ans.Fluchloralin, Alachlor, Trifluralin etc.

24. The herbicides applied 1-4 days after sowing are comes under

Ans.Pre-emergence herbicides.

25. The example of PRE herbicides are

Ans.Simazine, Atrazin, Alachlor, Butachlor, Nitrofen, Pendimethalin etc.

26. The herbicides applied 30-40 DAS are comes under

Ans.Post-emergence herbicides.

27. The example of POST herbicides are

Ans.2, 4-D, Diquat, Paraquat, Isoproturon, Fenoxaprop-ethyl, Sulfosulfuron, Chlorimuronethyl etc.

28. 2, 4-D belongs to the chemical group

Ans.Chloro phenoxy compound

29. Fluchloralin and Pendimethalin belong to the chemical group

Ans.Dinitroanilines

30. Atazine and Simazine belong to the chemical group

Ans.Triazines

31. Alachlor, Butachlor and Propanil belong to the chemical group

Ans.Amide

32. Glyphosate and Anilophos belong to the chemical group

Ans.Organophosphorus

33. What is the trade name of Alachlor?

Ans.Lasso

34. What is the trade name of Chlorimuron-ethyl?

35. Classic, Kloben

36. What is the trade name of Chlorimuron 10% + Metasulfuron-methyl 10%?

Ans.Almix

37. What is the trade name of Ethoxy sulfuron?

Ans.Sunrise

38. What is the trade name of Glyphosate?

Ans.Roundup

39. What is the trade name of Nitrofen?

Ans.Toke E-25

40. What is the trade name of Pendimethalin?

Ans.Stomp

41. What is the trade name of Fenoxa prop-ethyl?

Ans.Whip super

42. Paraquate is a

Ans.Contact herbicide

43. Which herbicide shows Knock down effect?

Ans.Paraquate, Diquate and Glyphosate

44. Which is a contact selective herbicide?

Ans.Propanil

45. Herbicides are not used in dust formulation because of

Ans.Drifting hazards

46. What is the concentration of solution in ppm if 2 kg of 2,4-D is mixed with 1000 lit of water?

Ans.2000

47. Which of the following weed having herbicide resistance?

Ans.Avena fatua

48. Which of the following is a indicator plant for the bioassay of Atrazine?

Ans.Soybean

49. First biologically controlled weed is

Ans.Lantana camara

50. *Parthenium hysterophorus* is biologically controlled by

Ans.*Zygogramma bicolorata*

51. The most dominant aquatic weed *Eichhornia crassipes* is controlled by

Ans.*Neochetina bruchi*

52. First commercial Bio-herbicide is

Ans.DEVINE

53. .BIPOLARIS is used to control weed

Ans.Johnson grass

54. Which of the following causes more wastage of herbicide by drift?

Ans.Ultra-low volume sprayer

55. The Bright Red coloured triangle in herbicide shows

Ans.Extremely toxic group