



GIET UNIVERSITY, GUNUPUR – 765022
B. Sc. (Ag.)(Fifth Semester) Examinations, January – 2023
AG(E)-312 – Weed Management

Time: 2 hrs

Maximum : 50 Marks

The figures in the right hand margin indicate marks.

PART – A

Q.1. Fill in the blanks with suitable word / figure.

(0.5 x 10 = 5 Marks)

- a. *Cuscuta chinensis* on Lucerne is weed.
- b. The word weed was first coined by
- c. Bio-agent for controlling *Partheniumhysterophorus*
- d. The botanical name of associated weed in rice field is
- e. Weed responsible for forest fire is
- f. use of herbicides is the best policy to avoid occurrence of resistance in weeds.
- g. is a plant where it is not desired.
- h. Adoptions of an approach help to avoid resistance as well as build strong and eco-environmental relationship.
- i. The phenomenon of one living organism living in, on, or with another living organism to complete its life cycle is called
- j. Dredging is most effective treatment for controlling

Q. 2. Define (or) Explain the following in one or two sentences.

(1 x 5 = 5 Marks)

- a. True Allelopathy
- b. Weed Control Efficiency
- c. Herbicide formulation
- d. Herbicide Mixture
- e. Adjuvant

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A		Column – B	
(a)	Abnormal tissue development	(i)	Stem
(b)	Purple nutsedge	(ii)	<i>Auxin type herbicides</i>
(c)	<i>Xanthium strumarium</i>	(iii)	Hooks
(d)	Devine	(iv)	<i>Cyperus rotundus</i>
(e)	Paraquat	(v)	<i>Morrentia odorata</i>
(f)	<i>Pistia lanceolata</i>	(vi)	Contact herbicide
(g)	Glyphosate	(vii)	Systemic herbicide
(h)	<i>Cyperus rotundus</i>	(viii)	Offset
(i)	<i>Hydrilla verticillata</i>	(ix)	Tubers
(j)	<i>Cuscuta arvensis</i>	(x)	Turions

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. *Zygogramma bicolorata* (Mexical beetle) used to control water hyacinth.
- b. Weed is a plant growing out of place and time.
- c. Spray drifts can be minimized by decreasing the size of spray droplets .
- d. *Cuscuta* is a stem parasitic weed.
- e. Biological weed control was more successful on native weeds.
- f. Spray drifts can be minimized by decreasing the size of spray droplets .
- g. *Cuscuta* is a stem parasitic weed.
- h. Flat fan/ Flood jet nozzle is used for spraying of herbicide.
- i. Biological weed control was more successful on native weeds.
- j. Weed index also called as weed smothering efficiency.

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

- 5. Define weed and mention the biological methods of weed control.
- 6. Classify herbicide based on time of application, selectivity and site of application with suitable examples..
- 7. Describe different principles of weed management.
- 8. Write the chemical control of weeds in maize, groundnut and sugarcane.
- 9. Classify weed according to morphology, origin and life cycle with suitable examples.
- 10. Distinguish between the followings with suitable examples.
 - i. Selective Herbicide verses Non-selective Herbicide.
 - ii. Functional Allelopathy verses True Allelopathy
 - iii. Crop associated weed verses crop bound weeds

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