



GIET UNIVERSITY, GUNUPUR – 765022
B. Sc (AG) (Fifth Semester) Examinations, December – 2020
EC-352 – WEED MANAGEMENT

Time: 2 hrs

Maximum: 50 Marks

The figures in the right hand margin indicate mark

Part A

Q.1. Fill in the blanks with suitable word/ figure (10 x 0.5= 5)

- Based on characters weeds are classified into monocot and dicot.
- Weeds introduced from other countries called
- Cuscuta chinensis* on Lucerne is
- are the chemicals added in the herbicide formulates in order to improve their efficiency *i.e* toxic effect of herbicides on weeds.
- reduces the surface tension of water and allow herbicides for better penetration on the weeds.
- nozzle is used for spraying of herbicides
- is an evolutionary process and it develops slowly and slowly over years.
- use of herbicides is the best policy to avoid occurrence of resistance in weeds.
- Adoptions of an approach help to avoid resistance as well as build strong and eco-environmental relationship.
- The phenomenon of one plant having detrimental effect on another plant through production or release of toxic chemicals called

Q.2. Define or explain the following in one or two sentence (5 x 1=5 Marks)

- Define weeds
- Beneficial effects of weeds
- What is herbicide
- Emulsifiable concentrate(EC)
- Advantages of bio-herbicides

Q.3. Match the following (Col. A with B) (5 x 1 = Marks)

Column- A			Column-B	
(a)	<i>Phalaris minor</i>		(i)	Ureas
(b)	Alachlor		(ii)	Triazines
(c)	<i>Digitaria sanguinalis</i>		(iii)	Bipyridiums
(d)	Chlorimuron		(iv)	Perennial grass
(e)	<i>Xanthium strumarium</i>		(v)	Sulfonyl urea
(f)	Atrazin		(vi)	Sedge
(g)	Diuron		(vii)	Gramineae
(h)	<i>Cyperus rotundus</i>		(viii)	Anilides
(i)	Paraquat		(ix)	Annual grass
(j)	<i>Cynodon dactylon</i>		(x)	Hooks

Q.4. Write true or false against each statement

(10 x 0.5= 5 Marks)

- a) Butachlor is a post emergence herbicide for rice weed management
- b) All weeds are unwanted plants but all unwanted plants may not be called weeds
- c) *Cuscuta* is a root parasitic weed
- d) Total annual loss of agricultural produce due to weeds is maximum
- e) Grassy weeds can be effectively controlled by 2,4-D
- f) *Zygogramma bicolorata* (Mexical beetle) used to control water hyacinth
- g) Flat fan/ Floodjet nozzle is used for spraying of herbicide
- h) Weeds do not have the capacity to thrive under adverse climatic condition
- i) Soil solarization is a technique of controlling soil borne pests including weeds.
- j) Spray drifts can be minimized by decreasing the size of spray droplets

PART - B

Attempt ANY FIVE questions. All questions carried equal marks (5 x 6 =30 Marks)

- 5. Briefly write about classification of weeds based life cycle/ontogeny.
- 6. Classify herbicide based on time of application of herbicides with suitable examples.
- 7. What do you mean by adjuvant. Explain the role of various adjuvants in enhancing herbicide efficacy.
- 8. Write briefly the cause of herbicide resistance and how it can be overcome.
- 9. Briefly describe about physical and cultural methods of weed control
- 10. How manipulation of agronomic practices and rotational use of herbicides control resistant weeds. Discuss

END OF PAPER