GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)

B. Sc. (Ag.) (Fifth Semester) Examinations, November 2024

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. Any direct or indirect harmful effect by one plant or another through the production of chemicals is called.....................

b. The botanical name of associated weed in wheat field is --------------------------------------.

c. .... weed when mixed with mustard seeds cause death and blindness of human.

d. Atrazine is a………………… herbicide.

e. Bioagent for controlling water hyacinth ………………..

f. Dormancy of weeds induced due to its genetic nature is called.........................

g. Application of herbicide through irrigation water is called ....

h. The word weed was first mentioned in book.........................

i. The chemical group of herbicide Pendimethalin is --------------------------------.a.

j. *Cuscuta chinensis* on Lucerne is ………………………….. weed.

Q. 2. Define (or) Explain the following in one or two sentences.   **(1 x 5 = 5 Marks)**

a. WI
b. Noxious weed
c. Stale seedbed
d. Herbicide resistance
e. Selective herbicides

Q3. Match the following   **(0.5 x 10 = 5 Marks)**

	Column – A		Column – B
(a)	Allelopathy	(i)	Hans Molisch
(b)	Mexican beetle	(ii)	Perennial weed
(c)	*Cyperus rotundus*	(iii)	Congress grass
(d)	*Xanthium strumarium*	(iv)	Hooks
(e)	*Orobanche sp*	(v)	Phalaris minor
(f)	*Cuscuta sp*	(vi)	tubers
(g)	Wheat	(vii)	Total stem parasite
(h)	*Leucas aspera*	(viii)	Total root parasite
(i)	*Phyllanthus niruri*	(ix)	Snake bite
(j)	*Cyperus rotundus*	(x)	Jaundice

Q4. Write True or False against each statement   **(0.5 x 10 = 5 Marks)**

a. Weed index also called as weed smothering efficiency

b. Total annual loss of agricultural produce due to diseases is maximum .

c. All weeds are unwanted plants whereas all unwanted plants may not be weeds

d. *Zygogramma bicolorata* (Mexical beetle) used to control water hyacinth.

e. Weed is a plant growing out of place and time.

f. Spray drifts can be minimized by decreasing the size of spray droplets .

g. *Cuscuta* is a stem parasitic weed.

h. Biological weed control was more successful on native weeds.

i. Euphorbia hirta is a weed coming under family leguminoseae.

j. The seed production capacity of weeds are much more than economical crop plants.

PART – B

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

5. Classify the weeds based on ontogeny, habitat and soil type.

6. Classify herbicide based on time of application, selectivity and spectrum of activity with suitable at least three examples.

7. What do you mean by herbicide resistance development in weeds. Write briefly the cause and mechanism of herbicide resistance in weeds.

8. Define weed and mention the biological methods of weed control

9. What do you mean by herbicide mixture? State the interaction of herbicide with fertilizer and insecticide.

10. Classify herbicide based on their formulations.

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