

OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE, NIGERIA
B. AGRIC. (HONS.) PLANT SCIENCE
FACULTY OF AGRICULTURE
RAIN SEMESTER EXAMINATION 1988/89
PSC 510 - PRINCIPLES OF WEED CONTROL

AUGUST 1989

TIME ALLOWED: 2 HOURS

Answer ALL Questions

1. Weeds produce millions of Naira in losses each year in Nigeria. List 5 ways in which these losses are produced.
 - a)
 - b)
 - c)
 - d)
 - e)
2. List 3 major systems of classifying weeds and give one example of a weed species in each category.
 - a) (i)
 - b) (i)
 - c) (i)
3. List 3 disadvantages of cultivation as a weed control method.
 - a)
 - b)
 - c)
4. In evaluating pesticides, what is LD_{50} and how is it used ?

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5. List three methods of herbicide application based on stage of crop growth. Give 2 advantages and 2 disadvantages of each.

- a) Adv. i
ii
Disadv i
ii
- b) Adv. i
ii
Disadv. i
ii
- c) Adv. i
ii
Disadv. i
ii
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6. List 4 morphological factors that form the basis for selectivity of herbicides

- a)
b)
c)
d)
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7. Physiological and metabolic processes known to be affected by systemic herbicides are:

- a)
b)
c)
d)
e)
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8. List 3 possible effects that could result from making a mistake when calculating the amount of herbicide to put into a spray tank.

a)

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b)

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c)

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9. List 3 major sources of herbicide injury and 3 methods to reduce the occurrence of each type of injury.

a)

1.

2.

3.

b)

1.

2.

3.

c)

1.

2.

3.

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10. List 5 ways that a herbicide may be dissipated in the soil

a)

b)

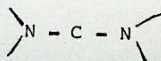
c)

d)

e)

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- 11a) Complete this basic structure of urea,



- b) Draw the structure of Monuron

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- g) Draw the structure of Diuron

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- d) What is the basic structural difference in b and c?
i)
ii)

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12. There is a piece of land to be sprayed with a herbicide KOGBE 50 WP. Assuming that the recommended rate is 3.0 kg a.i./ha. What quantity of product will be needed for a 100 ha piece of land.

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