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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

BRAINWARE UNIVERSITY

Term End Examination 2025-2026
Programme – M.Sc.(AG)-Agronomy-2025
Course Name – Principles and Practices of Weed Management
Course Code - AGRON503(T)
(Semester I)

Full Marks : 40 **Time : 2:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question) 1 x 10=10

1. *Choose the correct alternative from the following :*

(i) Identify the aquatic type represented by Eichhornia crassipes.

a) Free floating b) Rooted floating
c) Rooted submerged d) Emergent

(ii) Name the weed responsible for causing asthma.

a) Parthenium b) Typha
c) Calotropis d) Eclipta

(iii) Recall the weed known for its use as hair tonic.

a) Parthenium b) Typha
c) Calotropis d) Eclipta

(iv) Select the weed that spreads through balloon-like structures.

a) Physalis minima b) Avena fatua
c) Phalaris minor d) Amaranthus viridis

(v) Recognize the weed that is a total stem parasite.

a) Cuscuta b) Striga
c) Loranthus d) None of these

(vi) Identify the herbicide which is contact and non-selective in nature.

a) Glyphosate b) Paraquat
c) Atrazine d) Pendimethalin

(vii) Choose the weed that belongs to the sedge category.

a) Cyperus b) Cynodon
c) Avena d) Echinochloa

(viii) Name the herbicide that is applied to the soil.

a) Glyphosate b) Paraquat
c) 2,4-D B d) Fluchloralin

(ix) Select the herbicide that acts post-emergence and is selective.

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a) 2,4-D b) Glyphosate
c) Paraquat d) All

(x) Identify the weed that is toxic to both animals and humans.

a) Datura metal b) Ammannia baccifera
c) Urtica d) Chenopodium

(xi) State the mode of action of Quizalofop Ethyl.

a) ACCase Inhibitors b) ALS Inhibitors
c) Root growth inhibitors d) None of these

(xii) Identify the scientist associated with the term allelopathy.

a) M S Swaminathan b) G B Triplett
c) Jethro tull d) Hans Molisch

(xiii) State the mode of action of Pendimethalin.

a) ACCase Inhibitors b) ALS Inhibitors
c) Root growth inhibitors d) None of these

(xiv) Quizalofop Ethyl is effective against which type of weeds?

a) Grassy b) Broad-leaved
c) Sedge d) Both a and b

(xv) Identify the herbicide that is selective.

a) Paraquat b) Glyphosate
c) 2 4 D d) Diquat

Group-B

(Short Answer Type Questions) 2.5 x 6=15

2. List the key characteristics that enable weeds to persist in agro-ecosystems. (2.5)
3. Classify weeds based on their life span with examples. (2.5)
4. Identify weeds according to their origin and describe their effects. (2.5)
5. Categorize weeds by number of cotyledons and provide relevant examples. (2.5)
6. Formulate a weed management strategy for rice–wheat cropping system using IWM approach. (2.5)
7. Discuss three methods for treating brush and woody trees with herbicides. (2.5)

OR

Describe predominant weeds and its management in sugarcane crops. (2.5)

Group-C

(Long Answer Type Questions) 5 x 3=15

8. Design a weed management schedule for rice cultivation using integrated approaches. (5)
9. Formulate an effective weed management protocol for maize cultivation. (5)
10. Develop a sustainable herbicide-based weed control strategy for wheat crops. (5)

OR

Propose a comprehensive weed management plan for pulse crops. (5)

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