

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE (SPECIAL) DEGREE LEVEL I (SEMESTER I)  
EXAMINATION – OCTOBER 2021

SUBJECT: BOTANY

COURSE UNIT: BOT 4112 (Weed Biology and Management)

Time: Two hours

Answer all four (04) questions.

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1.

- a) List five (5) characteristic features of weeds.
- b) Name three (03) rice weeds with their botanical names and vernacular names.
- c) Mention three (03) advantages of using biological weed control.
- d) List four (04) indirect crop losses due to weeds.
- e) Define alien invasive species? Name three (3) common alien invasive weed species found in Sri Lanka.
- f) What are the impacts of seed dormancy in relation to weed control?

2. Briefly explain the following;

- a) Preventive method of weed control.
- b) Safety precautions used in handling herbicides.

3.

- a) What are the requirements to be a good bio control agent for weed control?
- b) Distinguish between
  - i) A bio control agent and a bio herbicide.
  - ii) Contact and translocated herbicides
  - iii) Selective and non- selective herbicides

4.

- i) What are adjuvants? List the major types of adjuvants.
- ii) Discuss briefly the role of surfactants in herbicide application.