

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE (SPECIAL) DEGREE LEVEL I (SEMESTER I)
EXAMINATION - July 2016

SUBJECT: BOTANY

COURSE UNIT: BOT 4112 (Weed Biology and Management)

Time: One and half hours

Answer three (03) questions including the **question 1**.

1.

- a) Name **five (5)** characteristics of terrestrial weeds in relation to its successful colonization in arable lands.
- b) Define alien invasive species? Name **four (4)** common alien invasive weed species found in Sri Lanka.
- c) What are the impacts of seed dormancy in relation to weed control?
- d) Write **three (3)** direct effects and **three (3)** indirect effects of weeds on crop plants.
- e) What is the difference between a selective herbicide and a non-selective herbicide? Give an example for each with their chemical structures.

2.

- i) What are adjuvants?
- ii) List the major kinds of adjuvants.
- iii) Explain briefly the role of surfactants in herbicide application.

3. Write a brief account on weed management using non chemical methods.

4. Imagine that you have noticed a new weed species spreads very rapidly in the field suppressing crop growth. As a weed scientist, explain the steps to be taken by you to eradicate such weed species from the infested area.