

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE (SPECIAL) DEGREE LEVEL I and II
(SEMESTER I) EXAMINATION – July 2017

SUBJECT: BOTANY

COURSE UNIT: BOT4242 (Seed Physiology and Technology)

Time: Two hours.

Answer all four questions.

1.
 - a) What do you mean by abnormal seedlings?
 - b) List six (06) seed characters which determine its planting value.
 - c) How do you reduce deterioration of seeds in a given seed sample.
 - d) What is imbibition injury? Name and describe the process you use to avoid it.
 - e) Distinguish between orthodox and recalcitrant seeds.

2.
 - a) What do you understand by seed vigor?
 - b) Name four different types of seed vigor tests.
 - c) Giving examples, explain one test from each of four types briefly.

3.
 - a) What are the main factors to be considered in establishing a seed processing plant?
 - b) Describe the seed treatment and packaging process in seed processing.

4. Define seed dormancy and discuss the significance of weed seed dormancy in crop cultivation.
