

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE (SPECIAL) DEGREE LEVEL I (SEMESTER II)
EXAMINATION – JANUARY 2018

SUBJECT: BOTANY

COURSE UNIT: Advanced Plant Pathology (BOT 4052)

Time: Two hour (2 h)

Answer for only four (04) questions

- (1)
- (i) List the characteristic features found in phytoplasmas.
 - (ii) Giving examples state symptoms caused by phytoplasmas in plants.
 - (iii) “Identification and classification of phytoplasmas are mainly depend on molecular techniques” discuss this statement.
- (2) Discuss the versatility of bacterial secretory system found in plant pathogenic bacteria.
- (3)
- (i) What is the genetic basis of hypersensitive response (HR) in plants?
 - (ii) Describe in detail how hypersensitive response (HR) provides the first line of defense in plants against biotrophic pathogens.
- (4) Write an account on fungal toxins and their role in pathogenicity.
- (5)
- (i) “Systemic acquired resistance (SAR) is an important phenomenon in plants against plant pathogens” discuss.
 - (ii) Explain how this differs from induced systemic resistance (ISR).
