## UNIVERSITY OF RUHUNA

## BACHELOR OF SCIENCE (SPECIAL DEGREE) LEVEL I (SEMESTER II) EXAMINATION – January 2018

SUBJECT: BOTANY

COURSE UNIT: BOT4072 Economic Botany & Entrepreneurship

Time: 2.0 hrs

## Answer for all 04 questions

(1)

- (a) What do you understand by "crop wild relatives (CWR)"?
- (b) Discuss the importance of in situ conservation of crop wild relatives.
- (c) State five threats to the maintenance of crop wild relatives in the field.
- (d) Briefly explain the importance of crop wild relatives in agriculture.

(2)

- (a) Briefly discuss the challenges contributing to the decline of plant-derived natural products as a source of drug discovery.
- (b) Explain the relationship between heating and cooling herbs with 'vata, pitta and kapha' according to the traditional medicinal system.

(3)

- a. What do you understand by the term "Marginal Utility"? (10 Marks)
- b. Briefly explain the change in your utility (ΔUtility) as a result of a change in the level of consumption (ΔQ) of a particular good. (25 Marks)
- c. Examine the specific areas need to be focused on, for Increasing business and entrepreneurial potential. (25 Marks)
- d. Discuss the importance of innovation to achieve the tasks of Entrepreneurship. (40 Marks)

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i)

ii)

Algae species	Chemical Product derived	
Laminaria sp.		
Macrocystis sp.		
Euchemia sp.		the state of the s
Gracilaria sp.	a	
Botryococcus braunii		
Diotoms		
What are the health benefits o	f Chlorella sp.?	(06 marks)
What are the factors to be con-	cerned prior to establishment of an alg	ae farm?
		(05 marks)
Briefly describe the "Off-bottom" rnethod of Euchema cultivation		(15 marks
Explain the extraction method	ls of essential oils.	(50 marks
	Laminaria sp.  Macrocystis sp.  Euchemia sp.  Gracilaria sp.  Botryococcus braunii  Diotoms  What are the health benefits of the work of the confidence of t	Laminaria sp.  Macrocystis sp.  Euchemia sp.  Gracilaria sp.  Botryococcus braunii  Diotoms  What are the health benefits of Chlorella sp.?  What are the factors to be concerned prior to establishment of an alg

(12 marks)

(12 marks)

List the major economic importance of sea weeds.

Filling the blanks of the following table.