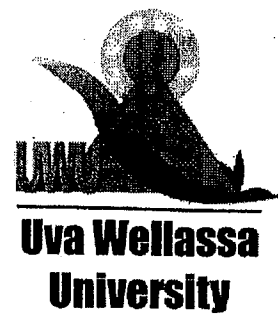


Uva Wellassa University, Sri Lanka  
End Semester Examination – September/October 2012  
SCT 111-2 Bioprospecting & Repeat



Time: Two (02) hours

Part C

1.
  - a) What are secondary metabolites? (10 marks)
  - b) Briefly explain the processes that can be used to isolate crude active compounds from a plant material. (10 marks)
  - c) Discuss the importance of plant secondary metabolites for therapeutic activities. (30 marks)
  
2.
  - a) Describe the difference between intentional and unintentional weight loss. (05 marks)
  - b) Briefly explain the methods that can be used to control the weight. (20 marks)
  - c) Nimali is a 20 years old girl who has a height of 5ft and weight of 130 lbs. She is doing a desk job and not engaged in any exercises.
    - i) Calculate the Body Mass Index (BMI) and comment on your answer. (10 marks)
    - ii) Calculate the Basal Metabolic Rate (BMR) for Nimali. (05 marks)
    - iii) Find out the Total Daily Energy Expenditure (TDEE) for Nimali. (10 marks)  
(1 ft = 12 inches, 1 in. = 2.54 cm, 1 m = 100 cm, 1 kg = 2.2 lbs)

Hint:

Men:  $BMR = 66 + (13.7 \times \text{wt in kg}) + (5 \times \text{ht in cm}) - (6.8 \times \text{age in years})$

Women:  $BMR = 655 + (9.6 \times \text{wt in kg}) + (1.8 \times \text{ht in cm}) - (4.7 \times \text{age in years})$

Activity multiplier for Sedentary (less active) person = 1.2