

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I **SESSION 2015/2016**

COURSE NAME

HERBS, VITAMINS AND

MINERALS

COURSE CODE

: DAU 33202

PROGRAMME

: 3 DAU

EXAMINATION DATE : DECEMBER 2015/JANUARY 2016

DURATION

: 2 HOURS 30 MINUTES

INSTRUCTIONS

: SECTION A)

ANSWER ALL QUESTIONS

SECTION B)

ANSWER TWO (2) QUESTIONS

ONLY

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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SECTION A

SECTIONA			
Q1	(a)	The human body requires 13 vitamins and 22 minerals to maintain growth and health.	
		(i) Differentiate between vitamins and minerals. (4 mark	is)
		(ii) Discuss the functions of the fat-soluble vitamins. (8 mark	(s)
		(iii) Minerals can be further categorized into macro and micro nutrient Define macro and micro nutrients.	
		(iv) Discuss the purposes of three (3) macronutrients and three (micronutrients.	
		(6 mark	(s)
	(b)	It is claimed that plant-based vitamins and minerals are superior compared to the synthetic man-made version. Give your opinion on this statement.	
		(5 mark	s)
Q2	(a)	Natural Healing stresses and relies on the body's ability to heal itself.	
		(i) Define natural healing. (2 mark	cs)
		(ii) Discuss the basic principles of natural healing. (6 mark	cs)
		(iii) Give details on the advantages of natural healing. (4 marl	cs)
	(b)	Herbal cleansing is related to natural healing. Discuss herbal cleansing wis suitable examples. (5 mark	

(8 marks)

SECTION B

Q3 (a) (i) Define natural products.

(2 marks)

(ii) Describe the classes of natural products

(3 marks)

(b) (i) Discuss the classification of medicinal plants.

(5 marks)

- (ii) Time of the year, time of the day and stage of maturity are among the important factors to consider in harvesting an herbal plant to produce good quality herbal products. Give a detailed description of these factors.

 (9 marks)
- (c) Discuss the process of extraction, separation and identification of the active components present in a medicinal plant.

(6 marks)

Q4 (a) Give the basis for the classification of traditional herbs.

(3 marks)

- (b) To assure the consumer that the herbal products on the market are of acceptable quality standards, the products must be standardized.
 - (i) Define the term standardized extract.

(2 marks)

(ii) Give your opinion on the importance of standardizing an herbal formulation.

(4 marks)

(c) Herbal products are available in various formulations. Describe in detail the various types of formulations. Include in your discussion the preparation as well the advantages and disadvantages of each one.

(16 marks)

Q5 (a) Over the years there have been increases in the use of herbal medicines. Give reasons why people are now using herbal or alternative medicines in preference to conventional medicine.

(5 marks)

(b) Differentiate between dosage and formulation of traditional herbs versus modern medication.

(10 marks)

- (c) Discuss and give suitable examples for the following:
 - (i) Adverse effects of drug-herb interactions.

(5 marks)

(ii) Drug-herb contraindications.

(5 marks)