

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2014/2015

COURSE NAME

FUNCTIONAL FOODS AND

NUTRACEUTICALS

COURSE CODE

: BWD 30703

PROGRAMME

3 BWD

:

EXAMINATION DATE

DECEMBER 2014 / JANUARY 2015

DURATION

3 HOURS

INSTRUCTIONS

1. ANSWER ALL QUESTIONS

2. PLEASE SUBMIT THIS

QUESTION PAPER

TOGETHER WITH YOUR

ANSWER BOOKLET AT THE END

OF EXAMINATION.

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

Q1	(a)	(a) Define and give 3 examples of dietary sources for the following carbohy	
		(i) Oligosaccharides(ii) Dietary fiber(iii) Resistant starch	
		(iii) Resistant staten	(15 marks)
	(b)	Discuss the relationship between dietary fibre intake and blood cholester human.	
			(10 marks)
Q2	(a)	Explain and relate the effects of the following bioactive peptides on human's health (i) Calmodulin	
		(ii) Soy protein	
			(10 marks)
	(b)	(b) Define and explain in depth the potential health benefits of the following proteins in human physiology:	
		(i) Lactoperoxidase(ii) Lactoferrin	
			(10 marks)
	(c)	List the importance of bioactive peptides analysis in food application?	
			(5 marks)
Q3	(a)	What is the difference between prebiotic and probiotic?	
			(5 marks)
	(b)	Elaborate the potential health benefits of the following phytochemicals:	
		(i) Curcumin (ii) Isothiocyanates	
		(iii) Capsaisin(iv) Piperine	
			(20 marks)

Q4 (a) Compare the proses and manufacturing aspect between green, black and oolong tea. Highlight the major phytochemicals in each tea.

(15 marks)

(b) Peria Katak or Green Bitter Melon (*Momordica charantia*) has been used traditionally to treat diabetes mellitus. Highlight the major phytochemicals which might contribute to the effects and explain the mechanism on how each phytochemicals can act as anti-diabetic agents.

(10 marks)

- END OF QUESTION -