Enrollment No: \_\_\_\_\_ Seat No: \_\_\_\_\_

## PARUL UNIVERSITY **FACULTY OF PHARMACY**

B. Pharm. Summer 2022-23 Examination

Date: 27/04/2023 Semester: 8

**Subject Code: BP812ET** Time: 10:00am to 1:00pm

**Subject Name: Dietary Supplements and Nutraceuticals Total Marks: 75** 

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l. Fi	gures to the right indicate maximum marks.						
2. M	ake suitable assumptions wherever necessary.						
<b>Q.1</b>	Multiple Choice Questions (MCQs) (1 Mark Each)						
1.	Which of the following is the property of Antioxidants?						
	a) Scavange free radicals	b) Provide energy					
	c) Promote growth	d) Promote digestion					
2.	Probiotics are	<u>-</u>					
	a) Synthetic nutraceuticals	b) Vitamin supplements					
	c) Helpful bacteria	d) food for bacteria					
3.	What is the synonym of <i>Hypericum perforatum</i> ?						
	a) Maiden Hair tree	b) St. John's wort					
	c) Kava	d) Gingko					
4.	The nutraceutical used as immunomodulator is						
	a) Turmeric	b) Ginseng					
	c) Galo	d) Ginger					
5.	is the example of nutraceutical belongs						
-	a) Spirulina	b) Broccoli					
	c) Gingko	d) Soya					
6.	The term nutraceuticals was first coined in 1989 by_	•					
••	a) William Gerwick	b) Metchinoff					
	c) Stephen De Felice	d) Samuel Thompson					
7.	Which of the following herb is used as nutraceuticals in management of heart diseases?						
	a) Trigonella foenum graecum	b) Allium sativum					
	c) Phyllanthus embellica	d) Both A and B					
8.	One of the following is a source of sulphide compou						
0.	a) Tomato	b) Garlic					
	c) Carrot	d) Ginger					
9.	Tomato contains	d) Olliger					
٠.	a) Lycopene	b) Anthocyanidine					
	c) Rutin	d) Catechin					
10	Quercetin is part of rutin?	d) Catecinii					
10.	a) Glycone	b) Aglycone					
	c) Glycoside	d) None					
11	Vit P is also known as	d) None					
11.	a) Rutin	b) Narinjin					
	c) Quercetin	d) Resveratrol					
12	AGMARK act 1937 comes under:	d) Resveration					
12.	a) Department of consumer affairs	b) Department of Agriculture and					
	a) Department of consumer arrains	Cooperation					
	a) Department of Marketing and Inspection	•					
12	c) Department of Marketing and Inspection	d) Department of Legal Meterology					
13.	FSSAI has issued a set of guidelines regarding the recall of from the market.						
	a) unsafe drinking water	b) unsafe food products					
1.4	c) unsafe labelling d) unsafe packaging						
14.	Which of the following does not have anti-oxidant qualities?						
	a) Vit E	b) Vit K					
	c) Calcium	d) omega 3 fatty acid					

(20)

15.	are the live bacteria that can be consumed in food.						
	a) Microbes	b) Probiotics					
	c) Prebiotics	d) None					
16.	Which is NOT considered as a nutrient?						
	a) Proteins	b) Fibres					
	c) Minerals	d) Vitamins					
17.	ich of the following statements regarding the free radicals is FALSE?						
	a) Free radicals carries a single, unpaired	b) Free radical can interact with molecule to					
	electron	generate a new free radical species					
	c) Free radicals are produced as result of	d) Free radicals do not occur naturally in the					
	haemolytic cleavage of covalent bond	body					
18are highly reactive molecules that are missing an electron.							
	a) Oxidants	b) Anti-oxidants					
	c) Free radicals	d) Enzymes					
19.	One of the following is NOT a fat soluble vitamin.						
	a) A	b) K					
	c) D	d) C					
20.	Food safety and Standard Act, 2006-passed by Indian Parliament and notified on						
	a) 23rd July 2006	b) 23rd June 2006					
	c) 23rd November 2006	d) 23rd August 2006					
0.4	I A ( 2 4-62) (10 M1-E1-)		(20)				
_	Long Answers (any 2 out of 3) (10 Mark Each)	die Wilhert trumpe of oote and no culations on	(20)				
1.	Describe in details about Food safety regulations in Inc prevailing in India for control of food qualities and pac	• • • • • • • • • • • • • • • • • • • •					
2.	a) Define and classify Nutraceuticals. Enlist nutraceuti						
	b) Explain the tem antioxidant. Discribe classification with examples.						
3.	Give occurrence, chemical composition and medicinal benefits of flavonoids.						
03	Short Answers (any 7 out of 9) (5 Mark Each)		(35)				
1.	What is prebiotics? Explain the chemical composition a	and nutraceutical values of prebiotics.	(55)				
2.	Explain the production of free radicals in cell damaging mechanism of radicals to metabolic process.						
3.	Write note of nutraceuticals used in the management of diabetes mellitus.						
4.	Describe role of free radicals in ageing and atherosclerosis.						
5.	Illustrate the involvement of free radicals in inflammation and Ischemic reperfusion injury.						
6.	What are the factors influences the processing, storage and potential of nutraceuticals?						
7.	Describe in detail occurrence chemical nature and medicinal benefits of sulphides.						
8.	Write about source, name of marker compounds and their chemical nature, Medicinal uses and health benefits of Flaxseeds.						
9.	Discuss role of dietary fibers and complex carbohydrate	es as functional food ingredients.					