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# B.Sc (Hons) FNS Semester-6 Examination

#### FNS 323

## **Nutraceuticals & Functional Forces**

Time: 2-30 Hours

April-2024

[Max. Marks: 70

Instructions: Illustrate your answers with neat diagrams wherever necessary.

## Q. 1 Write the following

(i) Explain the health benefits of Probiotics & Prebiotics.

(7 Marks)

(ii) Explain phytochemicals and give at least 5 examples of phytochemicals.

(7 Marks)

OF

(i) Explain the Regulatory body operational in India and the mandatory labelling

(7 Marks)

- requirements in India.
- (ii) Explain the health claims allowed in India. Also list the Categories covered under Food (7 Marks) Safety and Standards Regulations, 2022.

## Q.2 Write the following

(i) Write a detailed note on nutraceuticals used in treatment and prevention of CVDs.

(7 Marks)

(ii) What are antioxidants? Explain the role of nutraceuticals in cancer treatment and prevention.

(7 Marks)

OR

(i) Describe in detail how nutraceuticals can benefit individuals with Diabetes.

(7 Marks)

(ii) Explain the therapeutic potential of nutraceuticals in Obesity with suitable examples.

(7 Marks)

### Q. 3 Write the following

(i) Explain the principles of HACCP in brief.

(7 Marks)

(ii) Explain the Principles of Safety and Quality Management In

(7 Marks)

Food Industries.

OR

		(i) Explain any two countries Regulatory process.	(7 Marks)
	(ii)	Explain in short the different international regulatory bodies for nutraceuticals.	(7 Marks)
Q. 4	(:)	Write the following	(7 Mosks)
	(i)	Explain Nutraceutical market size in India? What are the factors that can be attributed to growth of the nutraceutical market?	(7 Marks)
	(ii)	What is food labelling? Describe in detail about the information on label of food package containing nutraceuticals.	(7 Marks)
		OR	
	(i)	Define the terms "Food Standards" and "Food Safety". Explain in detail about FSSAI and its functions.	(7 Marks)
	(ii)	Describe the term regulation. Explain the national regulations governing nutraceuticals in detail.	(7 Marks)
Q. 5		Attempt any seven out of twelve	(14 Marks)
		(i) Write the full form of FSDU.	
		(ii) Which products qualify under FSMP?	
		(iii) Under which category gym supplements and products for sport persons will fall?	
		(iv) Explain NSSL technology?	
		(v) Theact governs the regulation of nutraceutical in India.	
		<ul><li>(vi) What is Microencapsulation?</li><li>(vii) Explain the schedules FOR FOOD AND NUTRACEUTICALS as given by FSSAI for Indian.</li></ul>	
		(viii) Full form of DSHEA & FSANZ?	
		(ix) Which bioactive compound is present in tomato?	
		(x) How to assure quality in terms of both safety and efficacy of Nutraceutical	
		products?	
		products? (xi) What are Nutraceuticals & Functional foods? (xii) Full form of EPA & DHA?	