PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025

(Sixth Semester)

Branch - NUTRITION, FOOD SERVICE MANAGEMENT & DIETETICS

Diano		FUNCTIONAL FOODS & NUTRACEUTICALS
Time: Three Hours		Maximum: 50 Marks
Tir	ne:	SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)
1	(i)	entify the functional food for cardiovascular health Omega 3 fatty acids (ii) Artificial sweeteners (iv) Trans fats
2	(i)	Soluble fibre (ii) Insoluble fibre (iv) Protein based fibres
3	(i) (ii	/copene is particularly effective in reducing the risk of which type of cancer? Lung cancer (ii) Prostate cancer (iv) Colon cancer
4	(i)	iosgenin is a steroidal saponin primarily found in Sweet potatoes (ii) Turmeric (iv) Wild yams
5	G G	Thich of the following is a probiotic strain recommended by ICMR? (ii) Lactobacillus acidophilus (iv) Bacillus subtilis
		SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)
6	a	Explain the benefits of Nutraceuticals. OR
	b	Describe the non-essential nutrients as dietary supplements.
7	a	Summarize the role of Resistant starch in the application of food. OR
	b	Explain the quality assurance of probiotics and its safety.
8	a	Outline the importance of tannins and glycosinolates in food product. OR
	b	Bring out the effects of antinutritional factors in food processing.
9	a	Analyze the properties amylase inhibitors. OR
	b	Explain the functions and properties of diosgenin.
10	a	Describe the ICMR guidelines for probiotics. OR OR
	ъ	Summarize on national regulatory aspects of functional foods.

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SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Classify and explain the properties of functional foods.

OR

- b Elucidate the role of nutraceuticals in health and disease management.
- 12 a Define probiotics and highlights the important features of Lactobacillus and Bifidobacterium.

OR

- b Discuss the applications of prebiotics in the prevention of diseases.
- 13 a Examine the application of flavonoids and isoflavones in food industry.

OR

- b Discuss on food product with carotenoids and lycopene.
- 14 a Analyze the properties and functions of protease inhibitors.

OR

- b Elucidate on active bio-dynamic principles of capsaicin and gingerol.
- 15 a Highlight the International regulatory aspects of functional foods.

OR

b Examine the consumer marketing issues for nutraceuticals and functional foods.

Z-Z-Z

END