PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(First Semester)

Branch - NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS

FOOD CHEMISTRY / CHEMISTRY OF FOODS

		TOOD CHEWITT I CHEET TO THE TENTE OF THE TEN
	Tin	ne: Three Hours Maximum: 50 Marks
		SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)
1	(i) (ii	oisture content and Water activity is/are Qualitative and Quantitative properties respectively Quantitative and Qualitative properties respectively i) Both Qualitative (iv) Both Quantitative
2	(i)	mulsions stability enhancers are known as Antioxidants (ii) Surface active agents (iv) Fat replacers
3	(i)	lodified starches are stable
4	(i)	ollagen is a protein found in) Cartilage (ii) Connective tissue (iv) All the above
5	(i)	substance intentionally added that preserves flavour and improves taste is called) Food additive (ii) Food adulterant ii) Food contaminant (iv) Food material
		SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)
6	a	Outline the factors affecting composition of foods. OR
	b	Bring out the changes observed during boiling of water.
7	a	Explain the properties of colloids.
	b	OR Describe the factors affecting gel formation.
8	a	Explain the importance of Saponification number of Iodine number.
	_	OR
	b	Show the uses of substances in foods.
9	a	How do you classify proteins based on functional properties? OR
-	b	Show the chemistry of Gelatin.
10	a	Enumerate on animal pigments. OR
	b	State the natural flavouring components present in spices.

22NDU102/18NDU02 Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Enumerate hydrogen ion concentration in food.

OR

- b Analyse the water activity of foods.
- 12 a Differentiate between egg foams and dairy foams.

OR

- b Point out the functions of emulsifying agent.
- 13 a Discuss on classification of carbohydrates.

OR

- b Highlight the types of rancidity.
- 14 a Narrate the browning reaction in foods and steps to prevent browning reactions.

OR

- b Identify the factors affecting denaturation of protein.
- 15 a Compare anthocyanins with anthoxanthins.

OR

b Elucidate on texture profile of foods.

Z-Z-Z

END