PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

TRANS DISCIPLINARY COURSE

(Common to PG Programmes)

FOOD CHEMISTRY & QUALITY CONTROL

Time	: Thre	e Hours			Maximum: 50 Mark
		AL		A (5 Marks) L questions EQUAL marks	$(5 \times 1 = 5)$
1)		ose the chemica Starch		(iii) Fructose	(iv) Sucrose
2)	Identify the enzymatic browning reaction (i) Browning of Sugar (Caramelization) (ii) Browning of F (iii) Browning of lemon (iv) Browning of F				Rice during roasting
3)	Which is used in the food industry to speed up the reactions (i) Catalyst (ii) Additives (iii) Enzymes				? (iv) Intensifiers
4)	Mention the temperature at which taste s (i) Above 30°C (iii) Above 40°C			e sensation starts incre (ii) Below 20°C (iv) Below 10°C	easing
5)	Name the common adulterant of turmeric. (i) Hydrazine yellow (ii) Metanil Yellov (iii) Dye Yellow lake (iv) Yellow 5				v
		AL	SECTION - I Answer ALI L Questions Carr		(5 v 2 - 15)
6)	a) b)	Discuss on typ			$(5 \times 3 = 15)$
7)			on heamoglobin. (OR)		
8)	b) a)		operties of fats.	d additives with exam	ole.
	b)	Explain rheolo	(OR)		
9)	a)	(OR)			
10)	b)			tics that can be evalua	ited.
10)	a) b)	Discuss the role a	(OR)	nsumer protection act.	

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11) a) Determine the effect of moist and dry heat on starch. (OR)
 - b) Elaborate on animal protein.
- 12) a) Bring out the changes in pigments during cooking. (OR)
 - b) Enumerate on rancidity and its reversion.
- 13) a) Summarize natural food colorants and their uses. (OR)
 - b) Explain the role of enzymes in food industry.
- 14) a) Sketch down the chemistry and physiology of taste. (OR)
 - b) Discuss on rating methods of sensory evaluation.
- 15) a) Explain any five common adulterants in food and the test to identify it. (OR)
 - b) Summarize the role of BIS and AGMARK in food safety.

Z-Z-Z

END