TOTAL PAGES: 2 **18CHU05/14CHU05**

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2019

(Second Semester) /

Branch-CHEMISTRY

INDUSTRIAL CHEMISTRY

Time:	Three	e Hours	_	Maximum: 75 Marks
		Answer A	I-A (10 Marks! LL questions carry EQUAL marks	(10x1 = 10)
1	(i) B	t is the major raw material us oric acid Magnesia	sed in the manufactur (ii) Sand (iv) Cullet	re of glass?
2	Whice (i) D (iii) l	•	cturing of cement is f (ii) Wet (iv) Cold	followed in India?
	Wha (i) 10 (iii)		(ii) 3 (iv) 12	
	(i) Pa	out the contact insecticides? aris green lead arsenate	(ii) ethylene oxide (iv) pyrethrins	
5	(i)	ch types of rays cannot be pe visible X-rays	netrated by paints? (ii) UV (iv) Gamma rays	
6	(i)	tify the type of adhesive used starch rubber based	for laminating paper (ii) synthetic resin (iv) cellulose & silic	
7	Whice (i) (iii)	ch country manufacture alcol Europe India	hol from molasses? (ii) Africa (iv) Australia	
8	Ment (i) (iii)	tion the name of the pulp wh Soda Sulphite	ere Tall oil was obtai (ii) Sulphate (iv) Rag	ned as a by product?
9	(i)	nition of soaps is esters of glycerol potassium salts of higher fatt	(ii) esters of polyhy y acids (iv) sodium s	
10	Identify the anionic detergents?			
	(i)	RCOONa	(ii) RNH®C1	
	(iii)	$R0(CH_2CH_20)$ n ¹	(iv) RNHCH ₂ COON	Na
SECTION - B (25 Marks)				

Answer **ALL** questions

ALL questions carry EQUAL Marks $(5 \times 5 = 25)$

11 a Write about annealing process in the manufacturing of glass.

18CHU05/14CHU05 Cont...

12 a How urea act as a fertilizers?

OR

- b Describe the classification of Insecticides & based on their mode of action?
- 13 a Highlight any five advantage of emulsion paint.

OR

- b How animal glue act as adhesive?
- 14 a Describe the crystallization method of sugar followed in India.

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- b How calendaring process done in paper industry?
- 15 a Examine the cleaning action of soaps.

OR

b Sketch the flow chart of Alfol process.

SECTION -C (40 Marks)

Answer **ALL** questions

ALL questions carry EQUAL Marks $(5 \times 8 = 40)$

16 a Outline any four special types of glass.

OR

- b Discuss the chemistry of setting of cement.
- 17 a Discuss about the phosphate fertilizers.

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- b Examine the role of any one inorganic insecticides.
- 18 a Describe the role of anti skinning agent in paint?

OR

- b Point out the importance of Ultramarine blue as blue pigments.
- 19 a Discuss about the manufacture of sugar from beetroot.

OR

- b Compare Sulphate and Sulphite pulps through any four points.
- 20 a Discuss any four types of soaps and its importance.

OR

b Point out the role of additives in detergent.

Z-Z-Z END