PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(Second Semester)

Branch - CHEMISTRY

INDUSTRIAL CHEMISTRY

	<u>INDUSTRIA</u>	<u>AL CHEMISTRY</u>	
Time:	Three Hours	Maximum: 75 Marks	
	Answer A	N-A go Marks) ALL questions carry EQUAL marks ($(10 \times 1 = 10)$
	Which one is correct and about § (i) Soft (iii) Conductor	glass? (ii) Opaque (iv) No definite meeting poin	t
	Identify the correct heat required (i) 430 kcal/kg (iii) 800 kcal/kg	rect heat required for dry grinding. (ii) 1500 kcal/kg (iv) 4000 kcal/kg	
	What is the position urea occupies in the world's solid nitrogen us fertilizers? (i) One (ii) Two (iv) Fourth		
	Find out the fumigants in it. (i) Aldrin (iii) Paris green	(ii) Nicotine (iv) Rotenone	
	Identify the drying oil mostly us (i) Tung oil (iii) Caster oil	ed in paints. (ii) Linseed oil (iv) Tall oil	
	Which one is a protein adhesive (i) Dextrin (iii) Animal glue	? (ii) Casein (iv) Cellulose	
	Which country manufacture alco (i) Europe (iii) India	ohol from molasses? (ii) Africa (iv) Australia	
	Which pulp is used for making l (i) Sulphate (iii) Rag	ight papers? (ii) Sulphite (iv) Soda	
9	Which one is correct for toilet so (i) Hard (iii) Sterile acid present	oap? (ii) Smooth (iv) Glycerine as skin condit	ioner
10	Which one is Anionic detergents (i) RCOONO (iii) RNHCH ₂ coona	s? (ii) RNH ₃ cl (iv) R4 Ncl	

Cont...

18CHU05/14CHU05

Cont...

SECTION - B (35 Marks)

Answer **ALL** Questions

ALL Questions Carry EQUAL Marks ($5 \times 7 = 35$)

11 a Compare pot furnace & Tank furnace.

OR

- b Write about different the types of Portland cement.
- 12 a Discuss about fertility & PH value of soil.

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- b Differentiate natural & plant insecticides.
- 13 a Explain the manufacture of paint?

OR

- b Write about lithopone.
- 14 a Describe the manufacture of spirit.

OR

- b Examine the sulphite pulp.
- 15 a Explain the cleaning action of soaps.

OR

b Write about anionic detergents.

SECTION - C 130 Marks)

Answer any **THREE** Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- 16(i) Describe the annealing process in glass manufacturing.
 - (ii) Discuss the chemistry of setting of cement.
- 17(i) Point out the role of super phosphate as fertilizers.
 - (ii) Analyze how paris green act as insecticides.
- 18(i) Highlight the role of driers, thinners in paint industry.
 - (ii) Outline the importance of synthetic resin adhesive.
- 19(i) Discuss about carbonation in sugar industry.
 - (ii) Write about calendaring process.
- 20 (i) Sketch how glycerine is recovered from spent lye.
 - (ii) Out line the classification of surface active agents.

Z-Z-Z END