

Progressive Education Society's

Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16

(Autonomous)

End Semester Examination: OCT / NOV 2024 Faculty: Science and Technology

Program: B.Sc.General Semester: V SET: A

Program (Specific): Chemistry
Class: T.Y.B.Sc.
Course Type:DSEC-II
Max.Marks: 35

Name of the Course: Industrial Chemistry

Course Code: 24-CH-505 Time: 2Hr

Paper: 24-CH-505

Instructions to the candidate:

- 1) There are 4 sections in the question paper. Write each section on separate page.
- 2) All Sections are compulsory.
- 3) Figures to the right indicate full marks
- 4) Draw a well labelled diagram wherever necessary.

		SECTIO	N: A				
Q1) Multiple Cho	ice Questions			[1X5=5M]			
1)Intellectual property includes							
a) Q.C.	b) Q.A.	c) TM	d) HR				
2)Ostwald's process is used in the manufacture of							
a) NH ₃	b) HCl	c) HNO ₃	d) H ₂ SO ₄				
3)In the carbonation processgas is bubbled through the juice.							
a) CO	b) CO ₂	c) SO ₂	d)N ₂				
4)Detergent molecules can aggregate in water into spherical clusters called							
a) emulsion	b) surfactant	c) micelle	d)hydrotropes				
5)An isolated functional group capable of absorbing radiation is known as							
a) auxochrome	b) chromogen	c) chromophore	d) xanthochrome				
Q2) Very short ar	[1X4=4M]						
i) Define the term process control .							
ii) Write the balanced reaction for manufacture of ammonia.							
iii)What is molasses ?							
iv)What are soaps ?							
v)Is every coloured substance a dye ?							
vi)Define fermentation.							

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Q3) Short answer questions (Attempt any 4/6)	[2 X 4 = 8 M]
I)Explain the term Quality Control. II)Explain the term hydrophobic and hydrophilic. III)What are uses of bagasse ? IV)What is emulsion ? V)Write any two uses of sulphuric acid VI)What are functions of HR ?	
SECTION: C	
Q4) Short answer questions (Attempt any 4/6)	[2X4 = 8M]
I) Write short note on copy right.	
II)Write any two raw materials for manufacture of Nitric acid.	
III)What is sugar boiling?	
IV) What are qualities of good dye?	
V) Explain the term 'power alcohol'.	
VI) Explain causes of accident in chemical industry.	
SECTION: D	
Q5) Long answer type Questions (Attempt any 2/4)	[5 X 2 = 10 M]
I)Differentiate between batch and continuous process.	
II)Explain the manufacture of ammonia by modified Haber-Bosch process.	
III)What is fermentation? Explain the factors favourable for fermentation.	
IV)Write a brief note on 'washing action of soaps and detergents'	
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