Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code:95902

B.E./B.Tech. DEGREE EXAMINATION, AUGUST 2021

Fifth Semester

Chemical Engineering

19UCH302- PROCESS CHEMISTRY

(Regulation 2015)

Duration: 1:45 hour   Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1.	Give some applications of NBS?	CO1-U
2.	Define thermal halogenations of Methane?	CO1-R
3.	Write-down the equation involved in estimation of Acetone?	CO2-U
4.	Give some applications of NBS?	CO1-U
5.	Define thermal halogenations of Methane?	CO3-R
6.	Write-down the equation involved in estimation of Acetone?	CO2-U
7.	What is reagents?	CO1-R
8.	Write about application of active methylene.	CO1-R
9	Write the name of some Organic compounds.	CO2-U
10	Write about the work of adhesion in colloidal particles.	CO4-U
11	Classify the physical forces.	CO3-U
12	Define: Debye Length	CO4-R
13	Write the types of catalysts?	CO2-R
14	What is parallel reaction?	CO5-U
15	What is enzyme catalyses?	CO3-R

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Discuss the mechanism of nitration reaction with suitable reagents for   CO1- U   (10)
    aliphatic compounds.

17. Discuss the different types of carbohydrates. CO3- U (10)

18. Write in detail about dyes color and constitutions CO1- U (10)

19. Write in detail about CO3- U (10)

    (i) ZETA Poetntial

    (ii) Steric and electrostatic potentials

20. Write the Concept of activation energy and influence of ionic strength in rates of reactions CO1- U (10)

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