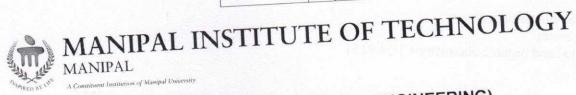
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III SEMESTER B.TECH. (CHEMICAL ENGINEERING) END SEMESTER EXAMINATIONS, JANUARY 2022

SUBJECT: PHYSICAL AND ORGANIC CHEMISTRY [CHM 2151] REVISED CREDIT SYSTEM

MAX. MARKS: 20

Instructions to Candidates:

- Answer ALL the questions.
- Missing data may be suitably assumed.

	Derive Langmuir adsorption isotherm and clausius Clapeyron equation for	4
A.	vaporization process.	3
B.	avistem and the phase diagram of the phase diagram	3
C.	dichromate solution and derive the rate of polypeptide.	4
2A.	Explain the classification of protein and synthesis of polypeptide. Explain the chromophore and auxochrome theory of dyes and evidences in favor of	3
2B.	ring structure of benzenc.	
2C.	Give reason for the following. a) Benzoic acid is more acidic than acetic acid. b) Sucrose does not undergo mutarotation. director but nitro group in nitro	3

Scheme pf evaluation
III Chemical
Physical and organic chemistry-CHM-2151

	2M
1A. Derivation of Langmuir adsorption isotherm.	2M
	2M
1B Explanation of boiling-temperature hydrochione acra sy	1M
Explanation of Triethyl amine-water system 1C. Explanation of potentiometric titration of Mohr's salt against	standard potassium
1C. Explanation of potentiometric titration of Wolf 3 said	2M
1:-h-momete solution	1M
Derivation of first order rate constant equation	2M
2A Classification of proteins	2M
	2M
and Auxochiome theory	2M
Factors in favor of Ring structure of Benzene	(1+1+1)M
2C. Proper reasons	