



D.Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY
KASABA BAWADA KOLHAPUR-416006
(An Autonomous Institute)
S. Y. B. Tech-Chem (Semester-III)

Q. Paper Code:

22SYCH202302

END SEMESTER EXAMINATION, OCT/NOV- 2021-22
COURSE NAME: Industrial & Engg. Chemistry –I, COURSE CODE: 201CEL202

Day and Date: Thursday,20/01/2022

Seat No :

Time: 11.00 am to 12.30 Pm

Max. Marks- 50

Instructions:

- i. All Questions are compulsory.
- ii. Figure to the right indicate full marks.
- iii. Give suitable general Instructions
- iv. Any other Course Specific Instructions.

BT	CO's	Q. No.	Attempt the following	Marks
		Q.1	Attempt the following	
		a	Derive an expression for first order reaction.	(7Mark)
		b	What are characteristics of catalysts?	(7Marks)
		c	Give an account of water system as one component system	(6 Marks)
		Q.2	Attempt the following	
		a	What are addition reactions? Explain its types OR	(7 Marks)
		a	Explain Witt's theory of dyes with suitable examples	(7 Marks)
		b	How aromatic nitro compounds are prepared by direct nitration method? Explain with its mechanism.	(8 Marks)
		Q.3	Attempt the following	
		a	Explain the reactions of nitro groups in aromatic nitro compounds.	(7 Marks)
		b	Give an account of azo dyes & anthraquinone dyes with their reactions. OR	(8 Marks)
		b	Explain modern theory of colours.	(8 Marks)
