## [A Unit of Vivekananda Vidyavardhaka Sangha Puttur @] Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08 Rev 1.14 (2022 rev) < FY> <10/05/24 >

Sub: Applied

Chemistry for CSE

S Code:

BCHES202

## CONTINUOUS INTERNAL EVALUATION - 1

Sem / Div: II/CS

Dept: FY

			Stream							
Date: 15/05/24			Time: 3:00-4:30	Max Marks: 50	Elective: N					
No	ote	e: Answer ar	ny 2 full questions,	choosing one full quest	ion from	eac	h part.			
QN		Questions				RBT	CO's			
			J	PARTA						
	i	Write a shor i) Sacrificial ii) Galvaniza	10	L2	CO3					
		What is CPI exposed to a was found to corrosion. It the CPR in a	it co	L3	CO3					
	c	Explain the managemen	, <del>-</del>	ro-metallurgical e-was	te 7	L2	CO5			
		OR								
2	a	Define Cor electrochem example.	rosion. With a blo nical theory of cor	ck diagram, explain throsion taking iron as a	e 10 n	L1, L2	CO3			
	b	1	selective electrode. g of glass electrode.	Explain the construction	n 8	L2	CO3			
	C	Explain th	ne principle of c	conductometric analysi	s. 7	L2	CO3			

PART B

Describe its application in estimation of weak acid.

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3		Explain the e-waste recycling by different pyrometallurgical methods.	10	L2	<b>C</b> Qô							
	b	What are Photovoltaic Cells? Explain the construction and working of PV cell.	8	L1, L2	CO4							
		What are conducting polymers? Explain the mechanism of conduction in polyacetylene by n-doping. List any 4 applications of conducting polymers.	7	L1, L2	CO4							
	OR											
4	a	Explain the synthesis of  (a) Kevlar fibre (b) Graphene oxide	10	L2	CO4							
		What are polymers. A polydisperse sample of polystyrene is prepared by mixing three monodisperse samples in the following proportions. 1g of 10,000 molecular weight, 2g of 50,000 molecular weight and 2g of 1,00,000 molecular weight. Determine number average and weight average molecular weight of the polymer. Calculate PDI.	8	L1, L3	CO4							
	С	Describe the generation of hydrogen by Alkaline water electrolysis with a neat labelled diagram.	7	L2	CO4							

กา**เปรีย** Prepared by: Ms. Nikhila T. HOD: Prof. M. Ramananda Kamath