Vivekananda College of Engineering & Technology, Puttur

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

CRM08 Rev 1.11 <FY> <26/12/23>

CONTINUOUS INTERNAL EVALUATION - 2

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Dept: FY	Sem / Div:I /CD,AIML	Sub: Applied Chemistry for Computer science engineering and allied branches	S Code: BCHES102	
Date:06/12/23	Time: 3:00-4:30 pm	Max Marks: 50	Elective:N	

Note: Answer any 2 full questions, choosing one full question from each part.

QN	Questions	arks ^I	RBT	CO's			
PART A							
	Explain the detection of Herbicide - Glyphosate and bio- molecule- ascorbic acid using disposable sensor with reactions.	10		CO1			
б	What are batteries? Explain the construction and working of lithium ion batteries and mention it applications.	8	L2	CO1			
C	Explain the steps involved in extraction of gold from e-waste.	7	L2	CO5			
OR							
2/2	Explain the detection of pharmaceutical pollutant diclofenac and hydrocarbon pollutant 1-hydroxy pyrene using Electrochemical sensor with electro-oxidation reactions.	10	L2	CO1			
	What is Quantum Dot Sensitized Solar Cell (QDSSC? Explain the construction and working of QDSSC.	8	L	2 CO			
	Discuss the following: (i) Pyrometallurgy (ii) Hydrometallurgy	7	L	2 CO			
	PART B						

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3	a	(i) Explain the types of organic memory devices by taking p- type and n-type semiconducting materials.(ii) Mention any four properties and applications of Polythiophenes (P3HT).	10	L2	CO2	
1	B	Discuss the working of Liquid Crystal Display.	8	L2	CO2	
		Define photoactive and electroactive materials and write their working principle in display system.	7	L2	CO2	
	OR					
4		(i) Explain the Classification liquid crystals.(ii) Mention any four properties and applications of liquid crystals electronic memory.	10	L2	CO2	
		Mention any four properties and applications of OLED and Poly[9-vinylcarbazole] (PVK)].	8	L2	CO2	
7	- 21	Discuss the use of Polyimide Polymeric material for Organic memory device.	7	L2	CO2	
				7	D-	

Prepared by: Dr. Chethan P.D.

HOD: Prof. Ramanand Kamath