

CRM08	Rev 1.10	<FY>	<22/09/2021>
-------	----------	------	--------------

**CONTINUOUS INTERNAL EVALUATION- 3**

Dept: Chemistry	Sem / Div:II/A,B and C	Sub: Engg. Chemistry	S Code:18CHE22
Date:23/09/2021	Time:3:00-4:30pm	Max Marks: 50	Elective:N
Note: Answer any 2 full questions, choosing one full question from each part.			

QN	Questions	Marks	RBT	COs
<b>PART A</b>				
1	a Explain the sources, effects and controlling measures of air pollution by i)Nitrogen Oxides ii)Carbon Monoxide	10	L1,L2	CO4
	b Mention the sources of sulphur oxide pollution. Write down its ill effects and control measure.	8	L2	CO4
	c What is e-waste? Explain the causes, effects and disposal methods	7	L1,L2	CO4
<b>OR</b>				
2	a What is solid waste? List the causes and effects. Explain any two disposal methods	10	L1,L2	CO4
	b Explain the sources, effects and control of lead and mercury pollution.	8	L2	CO4
	c Write a note on i)Acid rain ii)Global warming	7	L1,L2	CO4
<b>PART B</b>				
3	a Explain the instrumentation and applications of Atomic absorption spectroscopy.	10	L2	CO5
	b Write a note on fullerenes and graphenes. Mention their applications	8	L1	CO5
	c What are nano materials? Explain the synthesis of nano materials by Chemical vapor condensation.	7	L1	CO5
<b>OR</b>				
4	a Explain the instrumentation involved in Potentiometry mentioning the principle and its applications.	10	L2	CO5
	b Explain the Principle behind the variation of conductance in the following titrations. (a) Strong acid v/s Strong base (b) Mixture of strong acid + weak acid v/s Strong base	8	L2	CO5
	c Explain Sol-gel process for the synthesis of nano materials.	7	L1,L2	CO5