



CRM08

Rev 1.15(2022 scheme)

<FY>

<21/06/2024>

CONTINUOUS INTERNAL EVALUATION - 2

Dept: Sem / Div: Sub: Chemistry for S Code:
FY(Chemistry) II/CS A and B computer science BCHES202
and allied branches

Date: 26/06/24 Time: 3:00-4:30 Max Marks: 50 Elective: N

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

QN	Questions	Marks	RBT	CO's
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PART A

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|-----|---|----|----|-----|
| 1 a | Discuss the working principle of electrochemical gas sensors for the detection of SO _x and NO _x . | 10 | L2 | CO1 |
| b | Explain the steps involved in extraction of gold from e-waste. | 8 | L2 | CO5 |
| c | Explain the detection of pharmaceutical diclofenac using electrochemical sensor. | 7 | L2 | CO1 |

OR

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|-----|---|----|----|-----|
| 2 a | Discuss the principle, working and applications of optical sensors. | 10 | L2 | CO1 |
| b | Define a battery. Explain the construction and working of Li-ion battery. | 8 | L2 | CO1 |
| c | Explain the detection of ascorbic acid using electrochemical sensor. | 7 | L2 | CO1 |

PART B

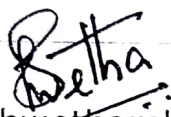
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|-----|---|----|--------|-----|
| 3 a | Explain the classification of electronic memory devices with examples. | 10 | L2 | CO2 |
| b | What are nano materials? Explain any properties and applications of poly vinyl carbazole (PVK) suitable for | 8 | L1/ L2 | CO2 |

optoelectronic devices.

- c Explain the types of organic memory devices by taking 7 L2 CO2
p-type and n-type semiconducting materials.

OR

- 4 a Explain the classification of liquid crystals. 10 L2 CO1
b What is OLED? Mention any four properties and 8 L1/ CO1
applications of OLED. L2
c Explain the role of producers and consumers in e-waste 7 L2 CO5
management.

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