

**ANNAI VIOLET ARTS AND SCIENCE COLLEGE**  
**DEPARTMENT OF BIOCHEMISTRY**

**CONTINUOUS INTERNAL ASSESSMENT – I (ODD SEM.)**

**Subject : Metabolism**

**Class : III B.Sc., Biochemistry**

**Max.Marks : 50**

**Date : 01.09.2022-FN**

**Sub. Code: -**

**PART A ( $5 \times 2 = 10$  Marks)**

**Answer any FIVE questions**

1. What is meant by P/O ratio?
2. List the basic metabolic pathways.
3. What are exergonic and endergonic reactions?
4. List the key enzymes of gluconeogenesis.
5. What is the site of glyoxalate cycle?
6. List the phases involved in glycolytic pathway.
7. What is  $\beta$ -oxidation?

**PART B – ( $2 \times 5 = 10$  Marks)**

**Answer any TWO questions**

8. Explain the mechanism of chemiosmotic theory.
9. Write a note on glyoxalate cycle.
10. Give a detailed note on the  $\beta$ -oxidation of fatty acids.

**PART C – ( $3 \times 10 = 30$  Marks)**

**Answer ALL questions**

11. Describe the components of ETC.
12. Give the reactions of gluconeogenesis.
13. Describe the steps involved in the degradation of glycogen.