

B.Sc. ZOOLOGY 4<sup>TH</sup> SEMESTER SESSIONAL EXAMINATION, 2023  
PAPER NAME: BIOCHEMISTRY OF METABOLIC PROCESSES  
PAPER CODE: ZOO-HC-4036

Marks- 30

Time: 1hr

Q1. Write short notes (**any two**):

5x2=10

- a) Citric acid cycle
- b) Gluconeogenesis
- c) Transamination and deamination
- d) Urea Cycle

Q2. Answer **any two** from the following:

10x2=20

- a) Elucidate the steps involved in glycolysis. How is it regulated? (8+2)
- b) Discuss the steps involved in  $\beta$ -oxidation of fatty acids with even-numbered carbon atoms.
- c) Differentiate between Glycogenesis and Glycogenolysis.
- d) Explain the role of ATP as the 'energy currency of the cell'.

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