

বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examination 2023

(Under CBCS Pattern)

Semester — II

Subject: NUTRITION

Paper: C-3T

(Nutritional Biophysics and Biochemistry)

Full Marks: 40

Time: 2 hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Groups as directed.

GROUP-A

1. Answer any **five** questions from the following : $2 \times 5 = 10$

(a) What do you mean by the term 'glycogenesis'?

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(Turn Over)



- *(b)* What is ketosis?
- (c) Define coenzyme with one example
- (d)What is globular protein?
- (e) Define colloid.
- B Write the importance of buffer in our body
- (g)Write down any two functions of iron
- (h) What is deamination?

GROUP-B

Answer any four questions from the following : $5 \times 4 = 20$

- Ņ enzymes and coenzymes. oxalosuccinic acid mentioning the name of Write down the conversion from pyruvic acid to
- ω name of stop codons for eukaryotes. What is urea cycle? What do you mean by genome? Write down the 2+1+2=5
- 4 What is oxidative phosphorylation? Write the process 2+3=5

- ÇI "DNA replication is semiconservative" — Justify the statement.
- 9 glycolysis in aerobic and anaerobic states. Write down the total energy production of 3+2=5

competitive inhibitor? Write down the M-M equation. What is 3+2=5

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GROUP-C

Answer any one question from the following:

 $10 \times 1 = 10$

- 00 its energy production. Describe the β-oxidation of 16-C fatty acid with 7+3=10
- with special reference to cardiovascular density and Low density lipoproteins in our body diseases. What are lipoproteins? Describe the role of High 2+(4+4)=10

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