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(NOVEMBER)

Biochemistry - I

Full Marks: 70

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions

A. Fill in the blanks with suitable words:

(1X5=5)

- 1) The lipids that function as fuel reserve in animal _____.
- 2) _____ is example of sulphur containing essential amino acid.
- 3) Nucleic acids are the polymers of _____.
- 4) The non-protein part of holoenzyme _____.
- 5) Chemical name of vitamin B1 is _____.

B. Define the following terms (any FIVE):

(2X5=10)

- 1) Deamination
- 2) Racemic mixture
- 3) Epimers
- 4) Amphipathic lipid
- 5) Saponification

C. Write short notes on (any THREE):

(5X3=15)

- 1) Factors affecting enzyme activity.
- 2) Functions of nucleic acids.
- 3) Denaturation of protein
- 4) TCA cycle.

D. Answer any FOUR of the following questions:

(10X4=40)

- 1) Explain gluconeogenesis pathway, with its importance. (7+3)
- 2) Define ketone bodies. Write a detailed note on ketogenesis. (8+2)
- 3) Define vitamins and write details about vitamin D. (2+8)
- 4) Write the function, source, dietary requirement, deficiency symptoms of Iron and sodium. (5+5)
- 5) Write about structural classification of amino acids. And write about the characteristics of denaturation of proteins. (7+3)

(SS/B.PARA/BIO/11-23)

Turn over