2024

(FYUGP)

(4th Semester)

ZOOLOGY

(Major)

Paper Code: ZOO/C7

(Fundamental of Biochemistry)

Full Marks: 75
Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. What are carbohydrates? Explain the structure and classification of carbohydrates.

1+5+9=15

Or

What is glycolysis? Explain glycolysis in detail with appropriate illustration. 2+13=15

24L/893

(Turn Over)



2. What are lipids? Write an essay on the classification of lipid. 2+13=15

(FOUGP)

Write on the structure, properties and biological significance of tri-acylglycerols. 15

3. Explain in detail the level of organization in proteins with proper diagrams.

Or

Write an essay on the physiological importance of essential and non-essential α-amino acids. Add a note on bonds stabilizing protein structure. 12+3=15

4. Explain the structure of DNA. Add a note on the types of DNA. 10+5=15

Full Marks:

Or

Write an essay on the complementarity of DNA. Add a note on denaturation of DNA.

10+5=15

5. What are enzymes? With proper diagrams, explain the mechanism of enzyme action.

1. What are carbohydrates? Explain the

1+14=15

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Derive the Michaelis-Menten equation.

What is glycolysis? Explain glycolysis in

15

24L-300/893

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