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Exam. Code: 107402 Subject Code: 1846

B.Sc. (Biotechnology) 2nd Semester

BT-9: BIOCHEMISTRY—B

Time Allowed—3 Hours] [Maximum Marks—40

Note:— Attempt *five* questions, selecting at least *one* question from each section. The *fifth* question may be attempted from any section.

SECTION—A

- 1. (A) What are essential fatty acids? Draw the structure of any two essential fatty acids.
- (B) Write a note on phosphoglycerides: 5
- 2. (A) Write a note on sterols.
 - (B) Discuss the structure and function of Triacylglycerols.

SECTION—B

- 3. (A) Write a note on non protein amino acids. 4
 - (B) Explain different forces stabilizing primary, secondary, tertiary and quaternary structures of proteins.
- 4. Name and draw the structure of any two:
 - (i) Aromatic Amino acids
 - (ii) Hydroxyl containing amino acids
 - (iii) Sulphur containing amino acids
 - (iv) Basic amino acids.

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SECTION—C

5.	Discuss	the	biological	importance	of	fat	soluble
	vitamins.						8

6. Explain the role of water soluble vitamins as cofactors with the help of suitable examples.

SECTION—D

- 7. Discuss the biological role of peptide hormones. 8
- 8. (A) Differentiate between peptide and steroid hormones.
- (B) Name different steroid hormones and state their function.