2024

(b) Classification and structure of lipids

(QDUYA)

(Structure also tuped at of farry acids

factorian (1st Semester)

BOTANY

3. What are amino (crojaMes) nibe the different levels of protein structures. 5+10=15

Paper Code: C-2 BCC-02

4. Write notes on any two of the following,:

己」=Sxxx (Biomolecules and Cell Biology)

9 Thatte author

(a) Structure of DNA

Full Marks: 75 (d)

Pass Marks: 40%

(c) Structure and functions of nucleotides

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

(a) Laws of then I TINU mics

- 1. Discuss the different types of chemical bonds. Discuss pH and buffers. 9+3+3=15
- 2. Write notes on any two of the following:

 7½×2=15
- (a) Classification of carbohydrates with

(Turn Over)

10-000 0-0100 (2)

- Classification and structure of lipids (b)
- Structure and function of fatty acids (c)

teresinse sal l

UNIT-II

3. What are amino acids? Describe the different 5+10=15 levels of protein structures.

Paper Code LC 2 BCC-02

Write notes on any two of the following: 7½×2=15

- (a) Structure of DNA
- (b) Structure of tRNA
- Structure and functions of nucleotides (c)

UNIT—III

English Consider

5. Write notes on any two of the following:

7½×2=15

- (a) Laws of thermodynamics
- (b) Redox reactions
- Endergonic and exergonic reactions (c)
- 6. What are enzymes? Give the various classifications of enzymes. Describe the various theories on the mechanism of action.

3+3+9=15

UNIT-IV

- 7. What is a cell? Describe the structure and function of a plant cell with suitable diagram.

 3+12=15
- 8. Write notes on any two of the following: $7\frac{1}{2} \times 2 = 15$
 - (a) Fluid mosaic model
 - (b) Meiosis and its significance.
 - (c) Active and passive transport

UNIT-V

- 9. Write notes on any two of the following: $7\frac{1}{2} \times 2 = 15$
 - (a) Structure and functions of nucleus
 - (b) Structure and functions of chloroplast
 - (c) Smooth and rough endoplasmic reticulum
- 10. Discuss the structural organization of mitochondria. Write a note on the semi-autonomous nature of mitochondria and chloroplast.

 6+9=15
