

16.11.19/FN SUB.CODE: 18UFQ1A1

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**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**



(For Candidates admitted from 2018-2019 onwards)

U.G DEGREE EXAMINATIONS, NOVEMBER – 2019

Time : 3 hrs

Max. Marks: 75

B.Sc., Food Technology and Quality Control

Biochemistry

Section– A

CHOOSE THE CORRECT ANSWER (10 X 1 = 10)

1. Mitochondria are absent in

a) Yeast b) Fungi c) Bacteria d) Green algae

2. Endoplasmic reticulum membrane which is associated with ribosomes is called

a) ER lumen b) Smooth endoplasmic reticulum
c) Rough endoplasmic reticulum d) Endosome

3. Lack of appropriate lipid absorption leads to a condition known as

a) Metabolic syndrome b) Obesity c) Fatty liver d) Steatorrhea

4. Function of bile salt in the intestine

- a) Activate lipase
- b) Emulsifier
- c) Co-factor for cholesterylestratse
- d) Inhibition of lipid absorption

5. Which of the following amino acids is an optically inactive?

- a) Serine b) Glutamine d) Valine d) Glycine

6) β -pleated sheets are the examples of

- a) Primary structure b) Secondary structure
- c) Tertiary structure d) Quaternary structure

7. Enzymes involved in group transfer are fall in the classification of

- a) Lyase b) Isomerase c) Transferase d) Hydrolases

8. A vitamin that is Fat-soluble, affiliated with coagulation, named as:

- a) Vitamin C b) Vitamin K c) Vitamin D d) Vitamin A

9. Carbamoyl phosphate synthetase I is located in

- a) Mitochondria b) Ribosome c) Cytosol d) Peroxisome

10. Pacemaker enzymes for glycolysis

- a) Aldolase b) Hexokinase
- c) Phosphofructokinase d) Fructose isomerase

Section – B

ANSWER ALL THE QUESTIONS

(5X7=35)

11. a) What are monosaccharaides? Classify with suitable examples

Or

- b) Precise the structure and functions of mitochondria and peroxisomes

12. a) Give a detail account on chylomicrons

Or

- b) Explain the role of emulsifiers in fat digestion.

13. a) Comment on proteins denaturation

Or

- b) What are amino acids? How are they classified?

14. a) Explain the various factors affecting enzyme function

Or

- b) Write the source, structure, RDA and biological functions of Vitamin A

15.a) Explain the glycolysis pathway in detail

Or

- b) Outline the pathway of Urea cycle

Section – C

ANSWER ANY THREE QUESTIONS

(3X10=30)

16. Give a detail account on Homopolysaccharides

17. Elaborates the structure and functions of phospholipids

18. Discuss the secondary structure of proteins

19. Explain the nomenclature and classification of enzymes

20. Write the reactions and importance of phosphogluconate pathway