

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The instrument that is used to determine the concentration of biochemical compounds is called
  - (a) pH meter
  - (b) Colorimeter
  - (c) Chromatography
  - (d) Centrifugation

7. The enzymes acting on lipids are named as

- (a) nucleases
- (b) lipases
- (c) sucrase
- (d) lactase

8. The protein part of an enzyme is called

- (a) Apoenzyme
- (b) Holoenzyme
- (c) Isoenzyme
- (d) Endoenzyme

9. One of the following is nucleic acid sequence database

- (a) CATH
- (b) PIR
- (c) SCOP
- (d) DDBJ

10. PIR is

- (a) enzyme database
- (b) protein database
- (c) nucleic acid database
- (d) none of these

2. Svedberg invented \_\_\_\_\_

- (a) Colorimeter
- (b) pH meter
- (c) Spectrophotometer
- (d) Centrifuge

3. Which of the following is the storage polysaccharide in plants?

- (a) Pectin
- (b) Chitin
- (c) Starch
- (d) Cellulose

4. This is the disaccharide

- (a) maltose
- (b) glucose
- (c) starch
- (d) cellulose

5. One of the following is an example for tertiary structure of proteins

- (a) prolamine
- (b) albumin
- (c) myoglobin
- (d) haemoglobin

6. Ergosterol is

- (a) carbohydrate
- (b) protein
- (c) lipid
- (d) a solvent

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Describe covalent bonds.

Or

- (b) Write short notes on centrifuge.

12. (a) Describe the structure of sucrose.

Or

- (b) Write the physical properties of monosaccharides.

13. (a) Explain the tertiary structure of proteins.

Or

- (b) Describe the properties of lipids.

14. (a) Write the classification of enzymes.

Or

- (b) Explain the role of enzymes in industry.

15. (a) Write short notes on internet.

Or

- (b) Write short notes on PIR.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 600 words.

16. (a) Give a brief account on atom.

Or

- (b) Write the principle, structure and uses of pH meter.

17. (a) Write the properties of disaccharides.

Or

- (b) Describe the structure and properties of starch.

18. (a) Describe the primary and secondary structure of proteins.

Or

- (b) Write the classification of lipids.

19. (b) Explain the mechanism of enzyme action.

Or

- (b) Write briefly about nomenclature of enzymes.

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20. (a) Write an essay on enzyme database.

Or

- (b) Write an essay on computer.
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