

2. Write briefly on any seven:

(7 x 2 = 14)

- a) What are glycosaminoglycans and their role?
- b) Explain the formation of a peptide bond with diagram
- c) What are electromagnetic lenses?
- d) What is meant by passive transport?
- e) What is freeze-fracturing?
- f) Telomeres
- g) Stop codons
- h) Role of tRNA in translation
- i) Role of ER in cell cytoplasm

3. a) Explain the structure and function of cytoskeletal elements. (06)

b) Compare and contrast the structure and functions of ER and Golgi (06)

OR

b) Write a note on lysosomal structure and functions. (06)

4. a) Differentiate between Pro and eukaryotic cells (06)

b) Explain the structure and functions of nucleus (06)

OR

b) Write a note on Cell fractionation (06)

5. a) Describe the nucleosome structure with suitable illustrations (06)

b) Explain Griffith's experiment with a note on its significance. (06)

OR

b) Explain the compartmental organization of mitochondria. (06)

6. a) Write on the classification of amino acids on the basis of their structure. (06)

b) Discuss components and reactions of electron transport chain in mitochondria. (06)

OR

b) Discuss different types of lipids and their biological roles. (06)

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