

1 - COPY

- A) Give the Significance of the following (Any 5) (5)
- 1) Synthesis Phase
 - 2) Histones
 - 3) Nucleosome
 - 4) Cell cycle
 - 5) First Growth Phase
 - 6) Second growth phase
 - 7) DNA
- B) Answer the following :- (Any 2) (10)
- 1) Explain DNA packaging in detail ?
 - 2) What do you mean by generation time & explain it in detail ?
 - 3) Give the detail account on Histones ?
- A) Explain the terms :- (3)
- 1) Viscosity of DNA
 - 2) Enzyme Specificity
 - 3) Zwitter ion
- B) Give Structure of (Any 1) (2)
- 1) Adenine
 - 2) Cytosine
- B) Answer the following (Any 2) (10)
- 1) Explain any 4 reactions shown by aminoacids?
 - 2) Write in brief about the solubility behaviour of protein ?
 - 3) Explain different types of DNA with the help of diagram ?
- A) Explain the terms :- (Any 5) (5)
- 1) Combined Immunisation
 - 2) Active acquired immunity
 - 3) Natural active acquired immunity
 - 4) Artificial active acquired immunity 1-10
 - 5) Acquired immunity

6) Passive acquired immunity

7) Herd Immunity

B) Answer the following (Any 2)

- 1) State the importance of microbial antagonisms, Cellular factors and Inflammation in Innate Immunity. (10)
- 2) Write a note on Biological clones of Antigens ?
- 3) Explain Antigenicity with respect to species specificity Isospecificity and Autospecificity (10)

Q. 4 Answer the following :- (Any 3)

- 1) Write importance of fever and acute phase proteins in Innate Immunity
- 2) Explain the Primary and Secondary structural organization of Proteins ?
- 3) Explain any 3 analytical methods in protein chemistry.
- 4) What is DNA? Give the biological significance of DNA ? (10)

All The Best