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Marks : 60

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
- 5) Acquired immunity

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- 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. (16)
- 2) Write a note on Biological clanes of Antigens ?
- 3) Explain Antigenicity with reopect to species specificity Isospecificity and Autospecificity (16)

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 chemistey.
- 4) What is DNA? Give the biological significance of DNA ?

*All The Best*