



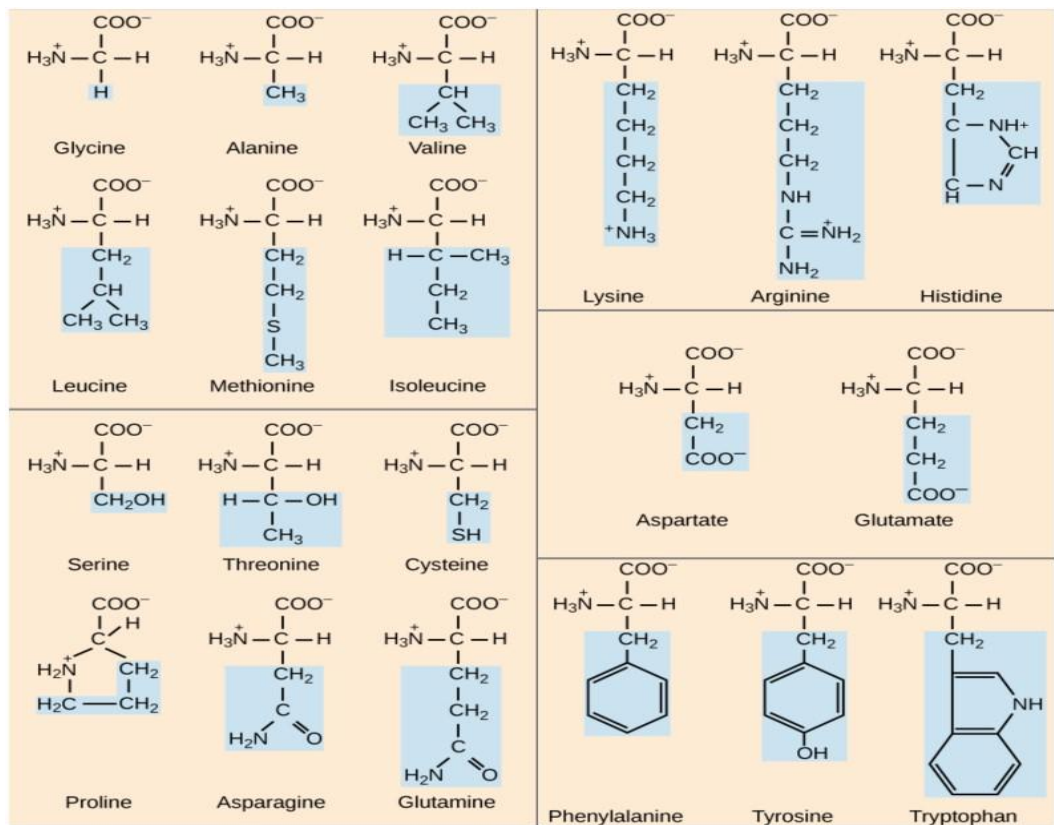
INDIAN SCHOOL DARSAIT
DEPARTMENT OF BIOLOGY



Subject : BIOLOGY	Topic : Biomolecules	Date: 27-04-2019
Resource Person: Mrs. S. Subhaja Nandakumar		Class : XI
Name of the Student: _____		Roll Number :

Answer of following

- 1) (a) Name the most abundant animal protein in the world. 1
(b) Name the most abundant protein in the biosphere.
- 2) What are apoenzymes? 1
- 3) Why does starch give blackish blue colour with iodine? 1
- 4) Differentiate between 2
(a) catabolism and anabolism x
(b) Essential and non essential amino acids 4
(c) Nucleoside and nucleotides.
(d) Primary and secondary metabolite
- 5) Describe the mechanism of enzyme action. 2
- 6) Explain the composition of triglycerides. 2
- 7) How are pyrimidines different from purines? 2
- 8) What is the difference between macromolecules and micromolecules? Give examples. 2
- 9) Give one example 3
(a) The substance which do not contribute in the growth of an organism.
(b) The protein which forms the ground substance in tissues.
(c) A hormone with polypeptide chain.
(d) An homopolysaccharide of fructose
(e) An heteropolysaccharide.
An example of phospholipid.
- 10) Based on the aminoacid chart given below answer the following: 2
(a) Amino acid with sulphur group- (c) Acidic Amino Acid
(b) Aromatic Amino acid (d) Basic Amino acid



- 11) What is enzyme nomenclature explain briefly. 3
- 12) Write a short note on co-factors. 3
- 13) How are enzymes different from chemical catalyst? 3
- 14) How does temperature and pH affect the enzyme activity? 3
- 15) State the difference between DNA and RNA. 3
- 16) Illustrate a glycosidic, peptide, ester and phosphodiester bonds. 3
- 17) Explain with the help of a graph the effect of concentration on substrate on enzyme activity. 5
What is competitive inhibition? Explain with a suitable example.
- 18) Write a brief note on the different protein structures. 5