Subject Code : RACSY70C

BIOCHEMISTRY FOR AQUACULTURE - II

Unit 1:

Blood –origin of blood cells, composition characteristics and coagulation.

Unit 2:

Cytochemistry-structure and biochemical composition of cell wall and plasma membrane- fluid mosaic model, trilaminar model. Receptor concept, sodium-potassium 0pumps.

Unit 3:

Endocrine glands-pituitary, thyroid, parathyroid, pancreas, adrenal, testis and ovary. Hormones- definition, classification, function, diseases associated with deficiency(or) excess of hormones.

Unit 4:

General account of major and accessory pigments. Respiratory pigments, Carotenoids and Chlorophyll.

Unit 5:

hytohormones and plant's secondary metabolites-structure and function of auxins, gibberellins, cytokinins and abscisic acid, - Alkaloids and flavonoids.

Text Book:

1.Stryer, L.1995 Biochemistry, 4th Ed.W.H.Freeman and company , New york.

Reference:

1. Donald voet and Judith voet, 1990. Biochemistry .John Wiley and Sons, New york
2. Henry, R.Mahler and Eugene, H.Cerdesz, 1966. Biological Chemistry. Harper International Edition. New york.
3. Hubert Stryer, 1995. Biochemistry. Freeman and company, New York.
4. Dawnm B.Markus, 19 94. Biochemistry. Harwal publishing, New York.
5. William, J.Marshall and Stephan, K.Bangert, 1995. Clinical Biochemistry : Metabolic and Clinical aspects. Churchill Livingston, New York.