

UNIT-I

DIGESTIVE, HEPATIC AND RESPIRATORY SYSTEMS: Digestive glands and tract- structure and functions, brief study of the organization of the digestion, absorption, and assimilation of food; Liver, pancreas and their functions.

Respiratory system - basic anatomy of the respiratory system, process of respiration, transport and exchange of oxygen and carbon dioxide in the body; Bohr effect; Haldane effect

UNIT - II

CIRCULATORY AND NERVOUS SYSTEM: Blood, RBC, WBC, platelets and lymph; Blood coagulation; Blood grouping and Rh factor; Circulatory system, heart structure and functions; Cardiac cycle, arterial and venous circulation; Central nervous system (CNS) - parts of the CNS; Neuron - structure and function.

UNIT -III

REPRODUCTIVE SYSTEM AND SENSE ORGANS: Reproductive system - anatomy of the male and female reproductive organs, menstrual cycle; Sense organs- structure and function of eye, ear, nose, tongue and skin.

UNIT - IV

HISTOLOGY- I: Introduction - secretory tissues; Endocrine glands; Structure and function of pituitary, thyroid, islets of Langerhans and adrenal gland; Exocrine glands.

UNIT - V

HISTOLOGY - II: Gross anatomy of kidney tissues, bone marrow, muscle, bone, cartilage, lung, and spinal cord.