20% Cell Biology Microbiology Biotechnology Structure and function of cells: chemical components organelles cell metabolism protein synthesis transport through membranes mitosis and meiosis	**25% Animal Anatomy & Physiology (emphasis on vertebrates)** Structure and function of tissues and organs involved in: digestion and nutrition circulation reproduction and development regulation (neural and hormonal) respiration excretion immunity

15 % Plant Anatomy & Physiology (emphasis on seed plants) Structure and function of tissues and organs involved in: photosynthesis, transpiration and gas exchange transport of water, minerals and assimilates growth and development reproduction (ferns and mosses included)	**5% Ethology** behavioural systems conflict behaviour causes of behaviour learned behaviour
	10% Ecology ecosystems bio-geochemical cycles population structure and dynamics biosphere and man food relationships energy flow succession

5% Biosystematics structure and function evolutionary and ecological relationships among typical organisms in major groups (Phyla and Classes only)	**20% Genetics & Evolution** variation: mutation and modification Mendelian inheritance multiple allelism, recombination, sex linkage Hardy-Weinberg principle mechanism of evolution