British Biology Olympiad syllabus

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