

NLSC BIOLOGY PAPER 1 ELEMENTS OF CONSTRUCT-CBC

ELEMENT	TOPICS/SUB-TOPICS INVOLVED
1. Diversity of organisms & sustainability of natural resources. ✓ Appreciate diversity of organisms & sustainability of natural resources [diversify of organisms, soil, pollution & conservation]	• Introduction to biology • Classification • Cell biology • Viruses • Insects • Flowering plants • Ecology; ✓ Concept of ecology ✓ Food webs & food chains ✓ Community interactions ✓ Human & natural environment • Soil
2. Plant biology (botany). ✓ Understand how plants obtain and use nutrients to meet their requirements during which raw materials and products carried to and from various organs involved.	• Nutrition in plants • Transport in plants • Respiration in plants • Growth & development in plants
3. Animal biology (zoology). ✓ Understand how mammals (animals) obtain & use nutrients to meet their energy requirements during which raw materials and products are carried to & from different organs involved.	• Nutrition in animals • Transport in animals • Respiration in animals • Gaseous exchange in animals • Excretion in animals • Growth & development in animals
4. Human physiology. ✓ Appreciate how a human body coordinates various activities and adjust to ensure normal functioning of body systems.	• Coordination • Homeostasis • Osmoregulation • Locomotion
5. Inheritance of characters and their variation. ✓ Appreciate how traits are inherited in organisms, passed to generations through reproduction and are manifested as organisms grow.	• Genetics [inheritance & variation] • Cell division • Reproduction • Growth & development