Marking Scheme & Teacher's Guide

1. Objective Answer Key & Pedagogical Justifications

Item No.	Correct Key	CBC Learning Sub-Strand & Competency	Pedagogical / Scientific Justification
1	**B**	Living Things: Plant Processes	Green leaves contain chlorophyll which traps sunlight to synthesize food through photosynthesis.
2	**A**	Living Things: Animals (Invertebrates)	Invertebrates lack an internal vertebral column (backbone). A grasshopper is an insect (arthropod), hence an invertebrate.
3	**B**	Living Things: Animal Characteristics	Seeking shade during hot weather demonstrates responding to external environmental stimuli (temperature changes).
4	**A**	Living Things: Classification	The primary biological distinction between insects (like butterflies or bees) and mammals (cows/elephants) is the presence or absence of a backbone.
5	**A**	Human Body: Digestive System	The muscular, J-shaped organ directly beneath the esophagus is the human stomach.
6	**B**	Living Things: Characteristics	While all living things grow, feed, reproduce, and die, laying eggs is specific only to oviparous animals (mammals give live birth; plants produce seeds).
7	**B**	Small Animals: Locomotion	Earthworms and legless invertebrates move along the soil surface through peristaltic crawling.