

SNC1D BIOLOGY - SUSTAINABLE ECOSYSTEMS

PART A: MULTIPLE CHOICE (10 marks)

PART B: MATCHING (10 marks)

PART C: APPLICATION (45 marks)

- analysis of a population graph (16)
- comparing photosynthesis & cellular respiration (8)
- analysis of an experiment & the carbon cycle (8)
- competition, predation, symbiosis (2)
- Easter Island & sustainability factors (3)
- analysis of a pesticide use bar graph (8)

PART D: EXPLAIN (35 marks)

- consider an ecosystem that contains ... is it sustainable? (3)
- producers vs consumers & energy flow (3)
- our atmosphere & its functions (3)
- "silence of the frogs" & ecosystems (4)
- carbon cycle & photosynthesis & cellular respiration - what if? (3)
- invasive species (i.e. the zebra mussel) (4)
- biomagnification (3)
- pesticides (6)
- pests (3)
- ecological footprint (3)