

Interactions and Interdependencies (KS3)

Section A – Recall (1–2 marks each)

Q1 (1 mark)

What is an ecosystem?

Q2 (1 mark)

What is meant by interdependence?

Q3 (1 mark)

What is a food web?

Q4 (1 mark)

Name one producer in an ecosystem.

Q5 (2 marks)

State TWO consumers in an ecosystem.

Q6 (2 marks)

State TWO things plants provide for other organisms.

Q7 (2 marks)

State TWO environmental factors that affect organisms.

Section B – Understanding (2–3 marks each)

Q8 (3 marks)

Explain why organisms in an ecosystem are interdependent.

Q9 (2 marks)

Explain the difference between a food chain and a food web.

Q10 (3 marks)

Explain why insects are important for crop production.

Q11 (3 marks)

Explain why plant reproduction is important for human food security.

Section C – Application (4 marks each)

Q12 (4 marks)

A student at *Learntit* learns that bee populations are declining. Explain how this could affect humans.

Q13 (4 marks)

Explain how changes in the environment can affect organisms.

Section D – Extended Response (6 marks each)

Q14 (6 marks)

Explain how organisms in an ecosystem are interdependent. Include food webs and insect-pollinated crops in your answer.

Q15 (6 marks)

Explain how changes in ecosystems which impact pollinators can affect food security.

Q16 (6 marks)

Explain how toxic materials can accumulate in food chains and affect organisms.

Total: ____ /47
Percentage: ____%