

SMART EXAM RESOURCES
0654 COORDINATED SCIENCES [DOUBLE AWARD]
TOPIC QUESTIONS – BIOLOGY [PAPER 2- MCQ]
18.4-Energy-losses-food-chain-Set-1

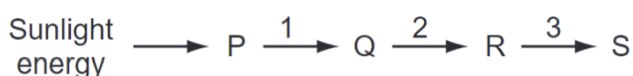
1.

Why is energy lost along a food chain?

- A** All plants and animals respire.
- B** Decomposers are at one end of a food chain.
- C** Energy enters a food chain only through plants.
- D** Not all animals feed on plants.

2.

The diagram shows a food chain.



Where do energy losses occur?

- A** 1 only **B** 1 and 2 only **C** 2 and 3 only **D** 1, 2 and 3

3.

Why do food chains usually have fewer than five trophic levels?

- A** Decomposers are not usually included in the chain.
- B** Energy is lost between each trophic level.
- C** There is only one level of carnivores.
- D** There is only one level of herbivores.

4.

The diagram shows a food chain.

Which organisms pass the greatest amount of energy along the food chain?



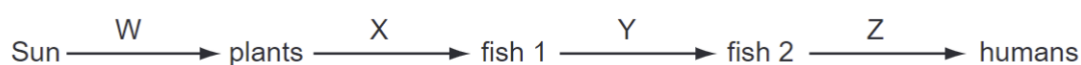
5.

Which process is responsible for the flow of energy along a food chain?

- A feeding
- B pollination
- C respiration
- D seed dispersal

6.

The diagram shows a food chain. The arrows show the flow of energy between organisms.



Where will energy loss occur?

- A from W only
- B from W, X and Y only
- C from X, Y and Z only
- D from W, X, Y and Z

7.

Why do food chains usually have fewer than five trophic levels?

- A All the carnivores consume herbivores.
- B The energy passed on reduces from one trophic level to the next.
- C There is less protein in each individual higher up the chain.
- D There is only one producer in each chain.

8.

In the food chain shown, 10% of the energy is transferred between each trophic level.

grass → grasshopper → frog → snake → buzzard

For every 100 kJ of energy in the herbivore, how much energy will be transferred to the tertiary consumer?

- A** 0.1 kJ **B** 1 kJ **C** 10 kJ **D** 100 kJ

9.

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10.

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