

Answer Key.

The National Orthodox School / Shmaisani

Subject: Biology

Extra practice

Name:

Date:

Grade 8 - all sections

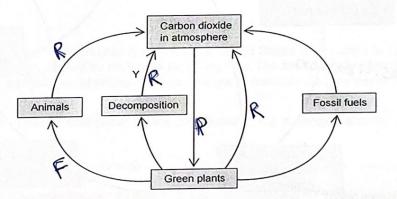
Objective: be able to answer questions in ecology.

Question 1:

a. The diagram below shows a representation of the carbon cycle.

Explain how carbon is returned to the atmosphere at the stage labelled Y.

By respiration CO2 is released.



- b. The diagram in part (a) is missing many details of the carbon cycle. Label the diagram as follows to show where each of the processes occurs within the carbon cycle.
 - (i) Use a letter R to show where respiration occurs.
 - (ii) Use a letter P to show where photosynthesis occurs.
 - (iii) Use a letter F to show where feeding occurs.

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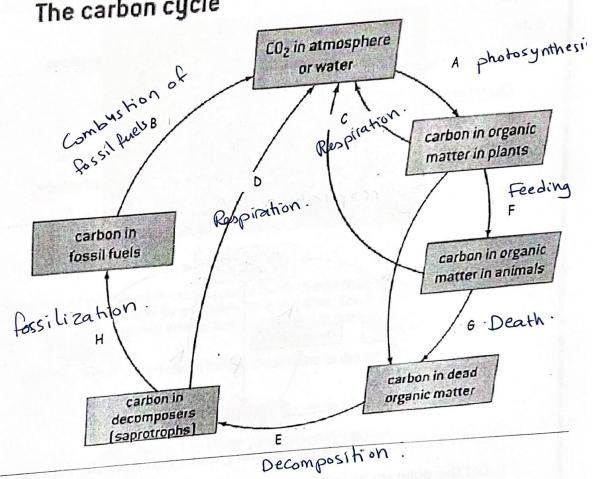


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Question 2:

Name the processes labelled with the letters on the diagram below:

The carbon cycle

















Question 3:

Moose, *Alces americanus*, shown in Fig. 6.1, are large herbivores that primarily live in northern parts of North America. They have a varied diet that includes young shoots of willow trees and aquatic plants.



Fig. 6.1

Isle Royale is a large island in Lake Superior in the United States where there is a population of moose that has been studied by ecologists for a long time. The animals' only predator is the wolf. The island has a population of wolves that has changed in numbers over the years.

(a) (i) Draw a food chain for the organisms in the passages above.

trees ___ Moose ___ wolf.

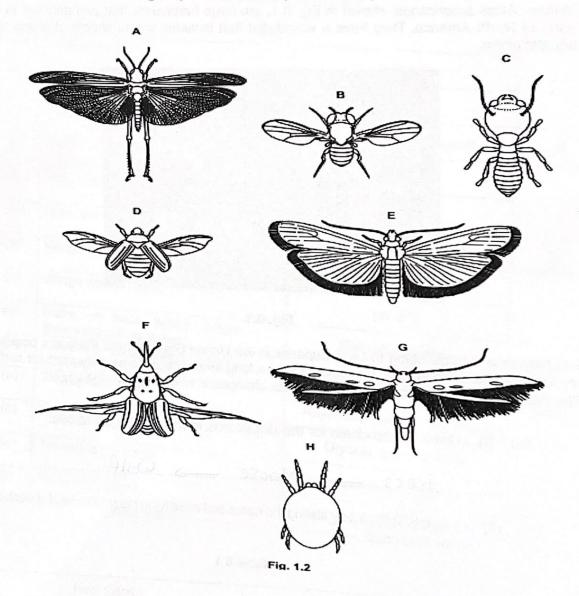
(ii) Complete Table 6.1 by stating the name and identifying the trophic level of each organism in the food chain.

Table 6.1

	name of organism			trophic level			
Trees			yst trophic level.				
Moose			and trophic level.				
Walf			3rd toughtic level				
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Question 4:

Fig. 1.2 shows eight species of arthropod that are pests of date palms.



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(b) Use the key to identify each species. Write the letter of each species, B to H, in the correct box in the key. One, A, has been done for you.

Key

	ney		
1 (a)	Wings present	go to 2	
(b)	Wings absent	go to 7	
2 (a)	Back legs adapted for jumping	Schistocerca gregaria	Α
(b)	Back legs not adapted for jumping	go to 3	
3 (a)	Two pairs of wings	go to 4	
(b)	One pair of wings	Drosophila melanogaster	B.
4 (a)	Wings with hairs	go to 5	
(b)	Wings with no hairs	go to 6	
5 (a)	Hairs on back wings longer than width of back wing	Ephestia cautella	G
(b)	Hairs on back wings shorter than width of back wing	Batrachedra amydraula	E
6 (a)	Thorax with spots	Rhynchophorus ferrugineus	F
(b)	Thorax with no spots	Oryctes agamemnon	D.
7 (a)	Three pairs of legs	Microcerotermes diversus	
(b)	Four pairs of legs	Oligonychus afrasiaticus	H











