SMART-EXAM-RESOURCES

CAMBRIDGE LOWER SECONDARY CHECKPOINT PRACTISE QUESTIONS AND ANSWERS

Subject: Biology Topic: Life Processes

Sub-topic-Characteristics and classification of living organisms-Set-1

1 Non-living things, such as a truck, have features that seem to be similar to those of living organisms.

growth

excretion

Choose words from the list of characteristics of living things and match them to the statements about a truck.

movement

nutrition	respiration	sensitivity
A truck needs to have a supply of diese	el put into its fuel ta	ank, similar to the need for
in animals. Wh	en this fuel is burnt	t exhaust fumes are removed,
like the process of	in animals.	Energy is released when this
fuel is burnt. This matches the process	s of	in both animals
and plants. This energy is used to tu	urn the wheels of th	e truck, like the process of
in animals.		

[4]

MARK SCHEME:

nutrition; excretion; respiration; movement;

[4]

[Total: 4]

2 The seven characteristics of living organisms are excretion, growth, movement, nutrition, reproduction, respiration and sensitivity.

Complete Table 1.1 below by writing the characteristic opposite its definition.

Table 1.1

definition	characteristic
a set of chemical reactions that breaks down nutrients to release energy in living cells	
the ability to detect stimuli and make appropriate responses	
an act causing a change of position or place	
removal from an organism of toxic materials, the waste products of metabolism or substances in excess of requirements	

[4]

[Total: 4]

MARK SCHEME:

		1
respiration; sensitivity; movement;		
excretion;	[4]	

3 Fig. 1.1 shows a snake.

A snake is a living organism and so shows the characteristics of life. The snake feeds by catching small animals such as mice and rats.



Fig. 1.1

(a) Complete Table 1.1 showing some of the characteristics of life for the snake.

Table 1.1

characteristic of life	definition
nutrition	obtaining nutrients for energy, growth and repair
	removal from an organism of toxic materials, the waste products of metabolism or substances in excess of requirements
reproduction	
	a permanent increase in size and dry mass by an increase in cell number or cell size or both

MARK SCHEME:

excretion;	animals) removal from an organism of toxic materials, the waste products of metabolism or substances in excess of requirements processes which make more if the same organism / AW; a permanent increase in size and		I egestion
growth;	•		
	reproduction	excretion; materials, the waste products of metabolism or substances in excess of requirements reproduction reproduction reproduction arowth: materials, the waste products of metabolism or substances in excess of requirements processes which make more if the same organism / AW; a permanent increase in size and	excretion; materials, the waste products of metabolism or substances in excess of requirements reproduction reproduction processes which make more if the same organism / AW; a permanent increase in size and

(a)	State three other characteristics of living organisms.
	1
	2
	3[3]

Respiration is a characteristic of living organisms.

4

MARK SCHEME

(a)	excretion;		
	growth;		
	movement;	ignore - locomotion	
	nutrition;	ignore - feeding	
	reproduction;		
	sensitivity/irritability;		
	Accept descriptions Any three – 1 mark each		[3]

	characteristic	description
		pumping air in and out of the lungs
	respiration	
		producing new individuals of the same species
	nutrition	
'		obtaining organic chemicals for the repair of tissues
	reproduction	
'		the release of energy from sugars

2 _____[2]

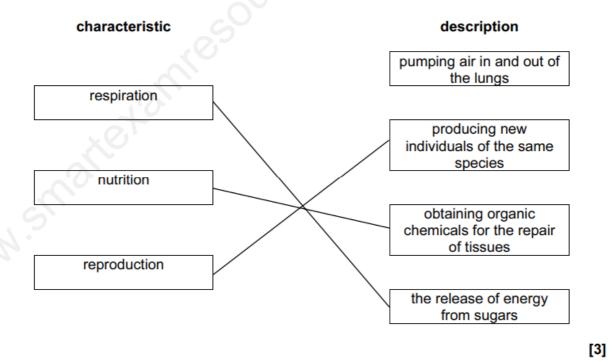
(a) Three characteristics of living organisms and four possible descriptions are shown

5

Cambridge Lower Secondary Checkpoints Stage 7 Practice Questions

[Total: 5]

(a)



(b) excretion;

growth;

movement; I – locomotion

sensitivity / irritability; [2]

[Total: 5]