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BIOLOGY-0610/31, 32, 33
TOPIC-Classification
- Characteristics

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- 1 The boxes on the left contain the names of characteristics of living organisms. The boxes on the right contain the definitions of these characteristics.

Draw **one** straight line to link the characteristic with its correct definition.

An example has been done for you.

characteristic	definition
sensitivity	chemical reactions in cells that break down nutrient molecules and release energy
respiration	the ability to detect and respond to changes in the environment
nutrition	taking in of materials for energy, growth and development
excretion	an action by an organism causing a change of position or place
movement	removal from organisms of toxic materials and substances in excess of requirements
reproduction	a permanent increase in size
growth	the processes that make more of the same kind of organism

[5]

[Total: 5]
[Turn over

- 7 The boxes on the left contain the names of biological terms.
The boxes on the right contain the definitions of these biological terms.
Draw **one** straight line from each biological term to the box containing the correct definition.

An example has been done for you.

biological term	definition
assimilation	transmission of genetic information from generation to generation
inheritance	groups of receptor cells responding to specific stimuli
sense organ	the movement of digested food molecules into the cells of the body where they are used, becoming part of the cell
tissue	a group of cells with similar structures working together to perform a shared function
active transport	an animal that gets its energy by eating plants
herbivore	a protein that functions as a biological catalyst
enzyme	movement of particles through a cell membrane from a region of lower concentration to a region of higher concentration using energy from respiration

[5]

[Total: 5]

- 1 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]



- 9 Fig. 9.1 shows processes that are carried out by organs in the human body.
 Draw **one** line from each process to the organ where the process takes place.
 You will need to draw **five** lines.

process	organ
breaks down alcohol	kidney
destroys hormones	liver
eliminates excess water	lung
excretes carbon dioxide	
forms urea	



[5]

[Total: 5]

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

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

excretion

growth

movement

nutrition

respiration

sensitivity

A truck needs to have a supply of diesel put into its fuel tank, similar to the need for in animals. When this fuel is burnt exhaust fumes are removed, like the process of in animals. Energy is released when this fuel is burnt. This matches the process of in both animals and plants. This energy is used to turn the wheels of the truck, like the process of in animals.

[4]

[Total: 4]




Answer **all** the questions.

- 1 (a) Three characteristics of living organisms and four possible descriptions are shown below.

Draw a straight line to match each characteristic to its description.

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



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[3]

- (b) State two **other** characteristics of living organisms.

1

2 [2]

[Total: 5]