

IGCSE Cambridge Topical Past Papers

BIOLOGY

0610 | Paper 1

2017 — 2024

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CHAPTER 1

CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS

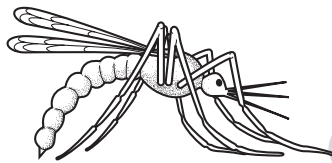
1 - (0610/11_Summer_2017_Q1) 

Which characteristic do **all** living organisms show?

- A breathing
- B excretion
- C photosynthesis
- D tropism

2 - (0610/11_Summer_2017_Q3) 

The diagram shows an animal.



What is the animal?

- 1 animal with a vertebral column vertebrate
- animal with an exoskeleton go to 2
- 2 no distinct head, thorax and abdomen **A**
- distinct head, thorax and abdomen go to 3
- 3 eye occupies less than one third of the head **B**
- eye occupies more than one third of the head go to 4
- 4 wings are wider than they are long **C**
- wings are longer than they are wide **D**

3 - (0610/12_Summer_2017_Q1) 

Which characteristic do **all** living organisms show?

- A breathing
- B excretion
- C photosynthesis
- D tropism

4 - (0610/12_Summer_2017_Q3) 

What is a characteristic of both insects and arachnids?

- A eight legs
- B exoskeleton
- C three pairs of legs
- D wings

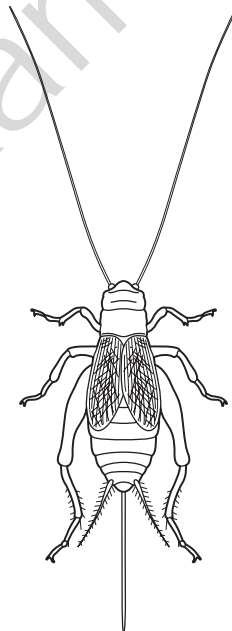
5 - (0610/13_Summer_2017_Q1) 

Which characteristic do **all** living organisms show?

- A breathing
- B excretion
- C photosynthesis
- D tropism

6 - (0610/13_Summer_2017_Q3) 

The diagram shows an animal.



Use the key to identify the animal in the diagram.

- 1 has six jointed legs go to 2
 has eight jointed legs go to 3
- 2 has antennae longer than its body **B** *Gryllus*
 has antennae shorter than its body **C** *Musca*
- 3 has stripes on its legs **A** *Araneus*
 has no stripes on its legs **D** *Pisaurina*

7 - (0610/11_Winter_2017_Q1)



Which process in plant cells uses chlorophyll?

- A** growth
B nutrition
C movement
D respiration

8 - (0610/11_Winter_2017_Q2)



The table shows the scientific names of four members of the cat family.

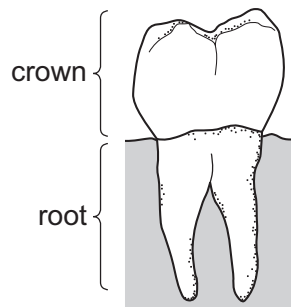
common name	scientific name
leopard	<i>Panthera pardus</i>
lion	<i>Panthera leo</i>
ocelot	<i>Leopardus pardalis</i>
tiger	<i>Panthera tigris</i>

Which statement is correct?

- A** All four cats are members of the same species.
B The leopard and the ocelot are members of the same genus.
C The leopard, lion and tiger are members of the same genus.
D The leopard, lion and tiger are members of the same species.

9 - (0610/11_Winter_2017_Q3) 

The diagram shows a type of tooth.



Use the key to identify the tooth.

- | | | |
|---|--|----------|
| 1 | the root is divided into two parts | go to 2 |
| | the root is not divided into two parts | go to 3 |
| 2 | the height of the crown is greater than the length of the root | A |
| | the height of the crown is less than the length of the root | B |
| 3 | flattened crown | C |
| | ridged crown | D |

10 - (0610/12_Winter_2017_Q1) 

Which process do living organisms use to remove excess carbon dioxide from their bodies?

- A** excretion
- B** movement
- C** nutrition
- D** respiration

11 - (0610/12_Winter_2017_Q2) 

When a donkey is bred with a zebra, a zebronkey is produced. Zebronkeys are not fertile animals.

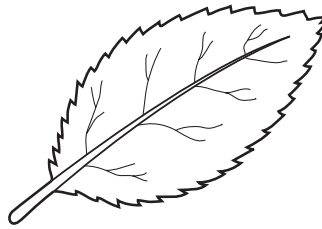
Which statement is correct?

- A** Donkeys and zebras belong to different species because their offspring are not fertile.
- B** Donkeys and zebras belong to different species because they do not look exactly the same.
- C** Donkeys and zebras belong to the same species because they look alike.
- D** Donkeys and zebras belong to the same species because they produce offspring.

12 - (0610/12_Winter_2017_Q3)



The diagram shows a leaf.



Use the key to identify the leaf.

- 1 leaf with several small leaflets go to 2
 leaf with one large leaf blade go to 3
- 2 leaflets are broad and flat **A**
 leaflets are narrow and hair-like **B**
- 3 leaf with a smooth edge **C**
 leaf with a toothed edge **D**

13 - (0610/13_Winter_2017_Q2)



The dire wolf is an extinct species of wolf.

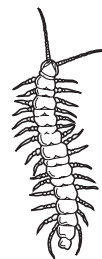
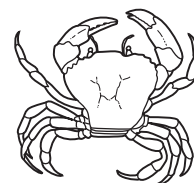
What is the correct scientific name for this wolf?

- A** *Canis Dirus*
B *canis dirus*
C *Canis dirus*
D *canis Dirus*

14 - (0610/13_Winter_2017_Q3)



Which of the animals shown is a crustacean?

A**B****C****D**

15 - (0610/11_Summer_2018_Q1) 

Which organisms carry out respiration, growth, movement and excretion?

- A all animals and all plants
- B animals only
- C arthropods and flowering plants only
- D plants only

16 - (0610/11_Summer_2018_Q2) 

The diagram shows an animal whose scientific name is *Falco peregrinus*.



To which species does it belong?

- A bird
- B *F. peregrinus*
- C *Falco*
- D vertebrate

17 - (0610/11_Summer_2018_Q3) 

What kind of skin do amphibians have?

- A dry without scales
- B dry with scales
- C moist without scales
- D moist with scales

1 – B	21 – C	41 – C	61 – A	81 – D
2 – B	22 – D	42 – C	62 – B	82 – D
3 – B	23 – A	43 – C	63 – D	83 – B
4 – B	24 – B	44 – D	64 – A	84 – B
5 – B	25 – C	45 – D	65 – D	85 – B
6 – B	26 – D	46 – B	66 – D	86 – C
7 – B	27 – A	47 – C	67 – B	87 – B
8 – C	28 – B	48 – A	68 – D	88 – C
9 – B	29 – A	49 – B	69 – A	89 – C
10 – A	30 – C	50 – D	70 – B	90 – B
11 – A	31 – A	51 – A	71 – B	91 – C
12 – D	32 – A	52 – A	72 – B	92 – A
13 – C	33 – A	53 – C	73 – D	93 – A
14 – D	34 – B	54 – D	74 – C	94 – C
15 – A	35 – B	55 – B	75 – D	95 – C
16 – B	36 – B	56 – A	76 – D	96 – A
17 – C	37 – C	57 – D	77 – D	97 – C
18 – D	38 – B	58 – A	78 – D	98 – C
19 – A	39 – C	59 – C	79 – D	99 – B
20 – B	40 – C	60 – D	80 – B	100 – C