

1. Nov/2023 /Paper_ 0610/11/No.1

Some processes carried out by living organisms are listed.

- 1 egestion
- 2 excretion
- 3 reproduction
- 4 respiration

Which processes are carried out by **all** living organisms?

- A** 1, 2, 3 and 4
- B** 1, 2 and 3 only
- C** 2, 3 and 4 only
- D** 3 and 4 only

2. Nov/2023 /Paper_ 0610/11/No.2

The scientific name for humans is *Homo sapiens*.

What does *Homo* refer to?

- A** mammal
- B** genus
- C** kingdom
- D** species

3. Nov/2023 /Paper_ 0610/11/No.3

Which row is correct for arthropod classification?

	arthropod group	antennae present	number of body parts	number of legs
A	arachnids	no	2	6
B	crustaceans	yes	3	8
C	insects	yes	3	6
D	myriapods	no	2	4

4. Nov/2023 /Paper_ 0610/11/No.4
In a mesophyll cell, where are chloroplasts found?
- A between the cell wall and the cell membrane
 - B in the cytoplasm
 - C in the nucleus
 - D in the vacuole

5. Nov/2023 /Paper_ 0610/11/No.5
The cell shown in the diagram has been magnified 3000 times. The diagram is 21 mm wide.



What is the actual diameter of the cell?

- A 21 mm
 - B $\frac{21\text{mm}}{3000}$
 - C $21\text{ mm} \times 3000$
 - D $\frac{3000}{21\text{mm}}$
6. Nov/2023 /Paper_ 0610/13/No.1
What are characteristics of all living organisms?
- A breathing, growth and movement
 - B egestion, nutrition and reproduction
 - C digestion, excretion and respiration
 - D reproduction, respiration and sensitivity
7. Nov/2023 /Paper_ 0610/13/No.2
Using the binomial system, the name of a lion is *Panthera leo*.
Which statement is correct?
- A The lion belongs to the kingdom *Panthera*.
 - B The lion belongs to the genus *Panthera*.
 - C The lion belongs to the species *Panthera*.
 - D The lion belongs to the genus *leo*.

8. Nov/2023 /Paper_ 0610/13/No.3

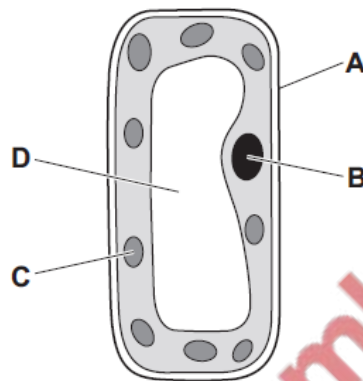
Which feature would place organisms into the crustacean group of arthropods?

- A eight legs
- B six legs
- C two pairs of antennae
- D usually have two pairs of wings

9. Nov/2023 /Paper_ 0610/13/No.4

The diagram shows the structure of a palisade cell from a leaf.

Which structure contains chlorophyll?



10. Nov/2023 /Paper_ 0610/13/No.5

A bacterial cell has a length of 40 mm when it is magnified by $\times 20\,000$.

What is the actual length of the bacterial cell?

- A 0.0002 mm B 0.002 mm C 0.02 mm D 0.2 mm

11. Nov/2023 /Paper_ 0610/21/No.1

Some processes carried out by living organisms are listed.

- 1 egestion
- 2 excretion
- 3 reproduction
- 4 respiration

Which processes are carried out by **all** living organisms?

- A 1, 2, 3 and 4
- B 1, 2 and 3 only
- C 2, 3 and 4 only
- D 3 and 4 only

12. Nov/2023 /Paper_ 0610/21/No.2

The scientific name for humans is *Homo sapiens*.

What does *Homo* refer to?

- A mammal
- B genus
- C kingdom
- D species

13. Nov/2023 /Paper_ 0610/21/No.3

Some structures found in cells are listed.

- 1 cell membrane
- 2 cell wall
- 3 mitochondria
- 4 nucleus

Which structures are found in prokaryotic cells?

- A 1 and 2 B 1 and 4 C 2 and 3 D 3 and 4

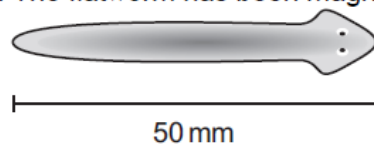
14. Nov/2023 /Paper_ 0610/21/No.4

In a mesophyll cell, where are chloroplasts found?

- A between the cell wall and the cell membrane
- B in the cytoplasm
- C in the nucleus
- D in the vacuole

15. Nov/2023 /Paper_ 0610/21/No.5

The diagram shows a flatworm. The flatworm has been magnified by $\times 100$.



What is the actual size of the flatworm?

- A $0.5 \mu\text{m}$ B $5 \mu\text{m}$ C $50 \mu\text{m}$ D $500 \mu\text{m}$

16. Nov/2023 /Paper_ 0610/22/No.1

Which processes are characteristics of all living organisms?

- 1 digestion
- 2 respiration
- 3 excretion

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

17. Nov/2023 /Paper_ 0610/22/No.2

Using the binomial system, the Arctic fox is called *Vulpes lagopus*.

Which row is correct?

	<i>Vulpes</i>	<i>lagopus</i>
A	genus	kingdom
B	genus	species
C	species	genus
D	species	kingdom

18. Nov/2023 /Paper_ 0610/22/No.3

Which feature is found in viruses?

- A cell wall
- B mitochondria
- C nucleus
- D protein coat

19. Nov/2023 /Paper_ 0610/22/No.4

Which features are possessed by all plant cells?

	a cell wall	chloroplasts
A	✓	✓
B	✓	x
C	x	✓
D	x	x

key
✓ = yes
x = no

20. Nov/2023 /Paper_ 0610/22/No.5

The length of a bacterium in a diagram is 50 mm. The magnification of the diagram is $\times 5000$.

What is the actual length of the bacterium?

- A $1\ \mu\text{m}$ B $10\ \mu\text{m}$ C $100\ \mu\text{m}$ D $1000\ \mu\text{m}$

21. Nov/2023 /Paper_ 0610/23/No.1

What are characteristics of all living organisms?

- A breathing, growth and movement
B egestion, nutrition and reproduction
C digestion, excretion and respiration
D reproduction, respiration and sensitivity

22. Nov/2023 /Paper_ 0610/23/No.2

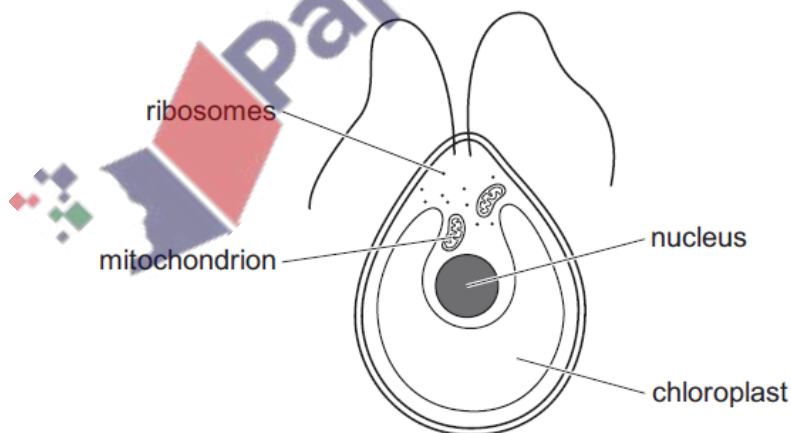
Using the binomial system, the name of a lion is *Panthera leo*.

Which statement is correct?

- A The lion belongs to the kingdom *Panthera*.
B The lion belongs to the genus *Panthera*.
C The lion belongs to the species *Panthera*.
D The lion belongs to the genus *leo*.

23. Nov/2023 /Paper_ 0610/23/No.3

The diagram shows an organism called *Chlamydomonas*.



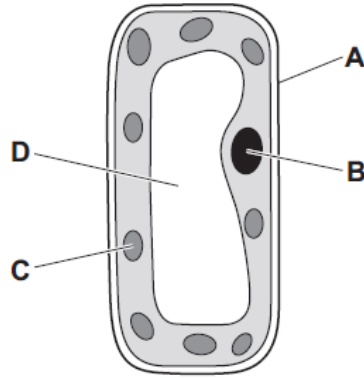
Which processes can *Chlamydomonas* carry out?

- A photosynthesis and respiration only
B photosynthesis, respiration, and protein synthesis
C protein synthesis and respiration only
D respiration only

24. Nov/2023 /Paper_ 0610/23/No.4

The diagram shows the structure of a palisade cell from a leaf.

Which structure contains chlorophyll?



25. Nov/2023 /Paper_ 0610/23/No.5

A diagram of a white blood cell has a diameter of 76 mm. The magnification of the diagram is $\times 8000$.

What is the actual diameter of the white blood cell?

- A 0.095 μm B 0.95 μm C 9.5 μm D 95.0 μm

26. Nov/2023 /Paper_ 0610/32/No.8(a)

(a) All living organisms can be classified into groups by the features they share.

(i) Complete the sentences about classifying organisms.

A species is a group of organisms that reproduce to produce

..... offspring.

All species are named using an internationally agreed system called the

..... system.

Fish, mammals, reptiles and amphibians are vertebrate groups. The other

vertebrate group is All vertebrates belong to the

..... kingdom.

One feature that is used to identify vertebrates is a

[5]

(ii) Draw a circle around the characteristic shared by all living organisms.

egestion

nutrition

sexual reproduction

transpiration

[1]

27. Nov/2023 /Paper_ 0610/33/No.7(a_b)

Fig. 7.1 is a photograph of a lionfish (*Pterois volitans*).

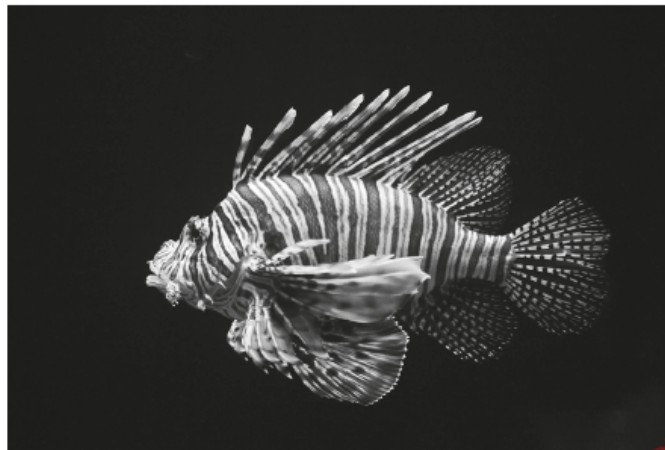


Fig. 7.1

(a) State the genus of the lionfish.

..... [1]

(b) Lionfish are classified as fish.

Table 7.1 shows features of organisms.

Place ticks (✓) in the boxes to show the correct features of birds, fish and insects.

Table 7.1

features	birds	fish	insects
compound eyes			
feathers			
internal skeleton			

[3]