

1.

A person touches a hot object and rapidly moves their hand away from the hot object.

Which characteristic of living organisms is this an example of?

- A** excretion
- B** growth
- C** reproduction
- D** sensitivity

2.

Which types of organisms are used in genetic modification because they have plasmids?

- A** arachnids
- B** bacteria
- C** myriapods
- D** ferns

3.

Which process is carried out by all organisms?

- A** growth
- B** photosynthesis
- C** sexual reproduction
- D** transpiration

4.

What is the first part of the scientific name of an organism, using the binomial system?

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

5.

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

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

6.

What kind of skin do amphibians have?

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

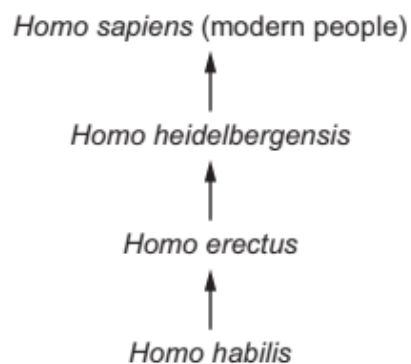
7.

Which characteristic of living organisms is represented by gas exchange in the alveoli?

- A excretion
- B growth
- C nutrition
- D reproduction

8.

The diagram shows how *Homo sapiens* (modern people) could have evolved from earlier ancestors.



Which statement about modern people and their ancestors is correct?

- A** They are the same species and the same genus.
- B** They are the same species but **not** the same genus.
- C** They are the same genus but **not** the same species.
- D** They are neither the same species nor the same genus.

9.

What is a characteristic of both insects and arachnids?

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

10.

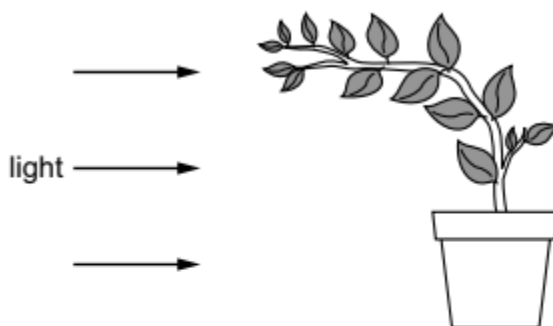
An animal can swim, has a backbone and produces milk.

Which group does this animal belong to?

- A** amphibians
- B** fish
- C** mammals
- D** reptiles

11.

The diagram shows a plant.



Which characteristic of living organisms is shown by the plant in the diagram?

- A** excretion
- B** reproduction
- C** respiration
- D** sensitivity

12.

Lichens are formed from two different organisms living together.

Organism X and organism Y are found in most lichens.

The table shows some of the characteristics of organism X and organism Y.

| X                                      | Y                                        |
|----------------------------------------|------------------------------------------|
| made of strands called hyphae          | single-celled                            |
| hyphae have cell walls and many nuclei | cell contains a nucleus and chloroplasts |

Which kingdoms do X and Y belong to?

|          | X         | Y          |
|----------|-----------|------------|
| <b>A</b> | fungus    | prokaryote |
| <b>B</b> | fungus    | protocist  |
| <b>C</b> | protocist | fungus     |
| <b>D</b> | protocist | plant      |

13.

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

14.

The scientific name for humans is *Homo sapiens*.

What does *Homo* refer to?

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

15.

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

16.

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

Which row is correct?

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

17.

Which feature is found in viruses?

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

18.

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

19.

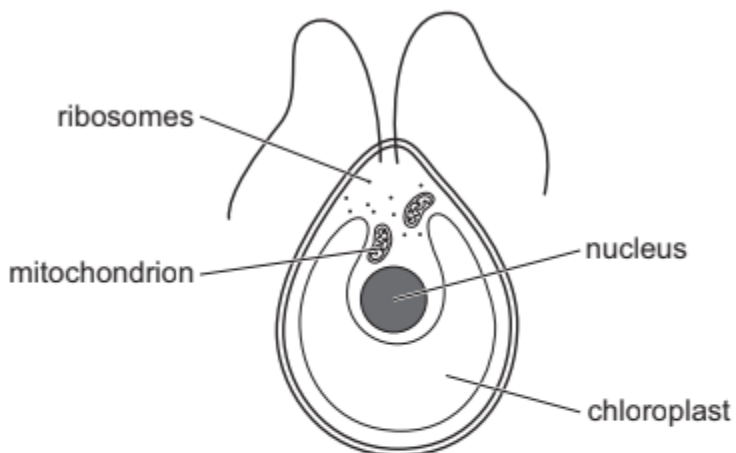
Using the binomial system, the name of a lion is *Panthera leo*.

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*.

20.

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

21.

What are characteristics of all organisms?

- A egestion and excretion
- B egestion and nutrition
- C excretion and nutrition
- D excretion and photosynthesis

22.

The scientific name for the golden eagle is *Aquila chrysaetos*.

What is the genus of the golden eagle?

- A** *Aquila*
- B** *chrysaetos*
- C** eagle
- D** golden

23.

Which process occurs both in plants and in animals?

- A** excretion
- B** phagocytosis
- C** photosynthesis
- D** transpiration

24.

Some statements about species are given.

- 1 Members of a species all look identical.
- 2 Members of a species belong to the same genus.
- 3 Members of a species can produce fertile offspring.
- 4 Species are named using an international system.

Which statements are correct?

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

25.

What are two characteristics of all living organisms?

- A** breathing and reproduction
- B** photosynthesis and excretion
- C** reproduction and respiration
- D** respiration and photosynthesis

26.

The photograph shows an organism.



Which visible feature can be used to classify this organism as a bird?

- A** feathers
- B** lays eggs
- C** two legs
- D** wings

27.

What is used as a means of classification?

- A** the number of strands of mRNA
- B** the shape of DNA molecules
- C** the sequence of bases in DNA
- D** the types of bases in DNA

28.

How many jointed legs does an insect have?

- A** two pairs
- B** three pairs
- C** four pairs
- D** more than six pairs

29.

Which process provides an organism with the raw materials needed for tissue repair?

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

30.

Which name is given to a group of individuals that can reproduce to produce fertile offspring?

- A** a genus
- B** a kingdom
- C** a species
- D** an organ system

31.

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Which process provides an organism with the raw materials needed for tissue repair?

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- D** an organ system

35.

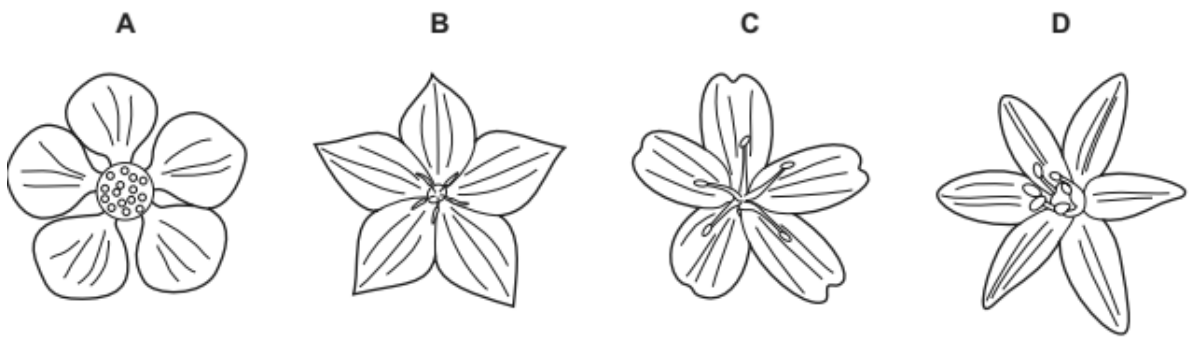
All living organisms release energy from nutrient molecules within their cells.

What is the name of this characteristic?

- A** growth
- B** nutrition
- C** respiration
- D** sensitivity

36.

Which diagram shows a flower from a monocotyledon?



37.