

Features of organisms: practice questions

7 questions • 17 marks • mark scheme at the back

For Cambridge IGCSE Biology 0610 (and 0970, which has the same content). **Supplement** is Extended content, only examined on Papers 2 and 4.

Name

Total / 17

1 Which pair of features is found in plant cells but not in animal cells? [1 mark]

- A. ☐ Nucleus and cytoplasm
- B. ☐ Cell wall of cellulose and chloroplasts
- C. ☐ Cell membrane and mitochondria
- D. ☐ Glycogen store and cell wall

2 The table describes four vertebrates. Name the vertebrate group of each animal. [4 marks]

Features of four vertebrates

Animal	Features
P	Feathers, two wings and a beak; lays hard-shelled eggs
Q	Moist, smooth skin; lays jelly-covered eggs in water
R	Body covered with fur; young fed on milk from mammary glands
S	Wet scales, fins and gills; lays soft eggs in water

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- 3 The table describes three arthropods. Name the arthropod group of each animal. [3 marks]

Features of three arthropods	
Animal	Features
X	Three body parts; three pairs of legs; one pair of antennae; two pairs of wings
Y	Two body parts; four pairs of legs; no antennae
Z	Long body of many similar segments, each with one pair of legs

- 4 State two features that all arthropods share. [2 marks]

- 5 **Supplement** [3 marks]

Describe three features of organisms in the fungus kingdom.

- 6 **Supplement** [1 mark]

Which pair of features is found in a monocotyledon?

- A. ☐ One cotyledon and parallel leaf veins
B. ☐ Two cotyledons and parallel leaf veins
C. ☐ One cotyledon and a network of leaf veins
D. ☐ Two cotyledons and a network of leaf veins

- 7 **Supplement** [3 marks]

(a) State the two parts that make up a virus. [2] (b) A single-celled organism has a cell wall but no nucleus. State the kingdom in which it is placed. [1]

Mark scheme

One mark for each point unless a maximum is given. Words in brackets are not needed for the mark.

1. [1]

B B (1)

2. [4]

- P bird (1)
- Q amphibian (1)
- R mammal (1)
- S fish (1)

3. [3]

- X insect (1)
- Y arachnid (1)
- Z myriapod (1) reject centipede / millipede (an example, not the group)

4. [2]

- hard exoskeleton / outer skeleton (1)
- jointed legs (1)
- segmented body (1)
- Max 2

5. [3] **Supplement**

- cell walls made of chitin (1)
- no chloroplasts / cannot photosynthesise (1)
- body made of threads / hyphae (1)
- feed by absorbing nutrients from other organisms (1)
- reproduce using spores (1)
- store carbohydrate as glycogen (1)
- Max 3

6. [1] **Supplement**

A A (1)

7. [3] **Supplement**

- (a) protein coat (1)
- genetic material (1)
- (b) prokaryote (1) allow bacteria