

BIOLOGY

0610 | Paper 2

2017 — 2025

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1 - (0610/21_Summer_2017_Q1) 

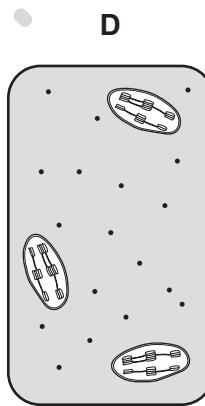
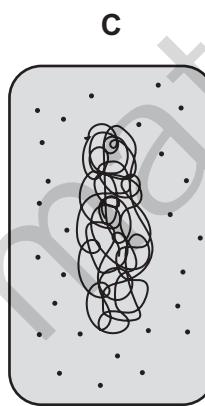
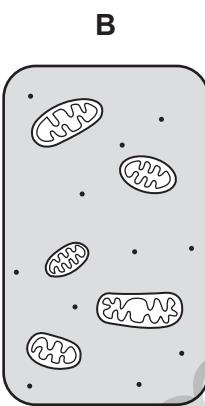
Which characteristic do **all** living organisms show?

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

2 - (0610/21_Summer_2017_Q3) 

Each of the diagrams shows an area of cytoplasm.

Which is from a prokaryote?

3 - (0610/22_Summer_2022_Q1) 

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

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

4 - (0610/23_Summer_2017_Q1) 

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

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

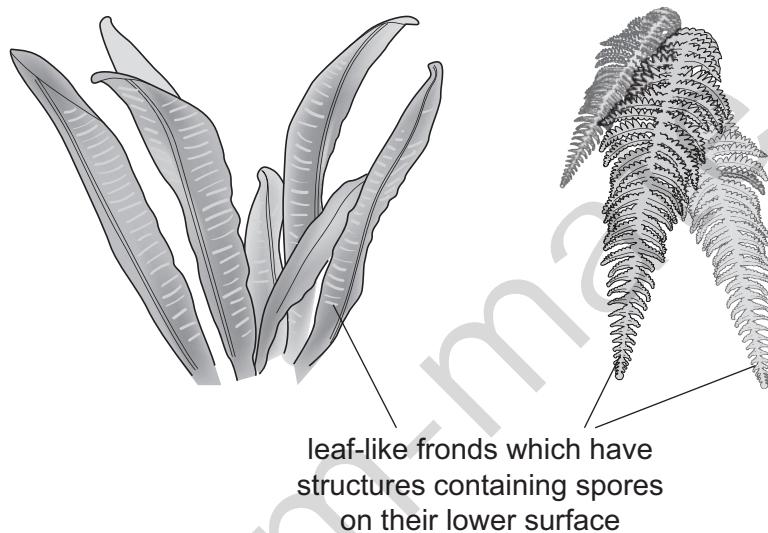
5 - (610/21_Winter_2017_Q1) 

Which term is defined as all the chemical reactions that occur in cells?

- A** photosynthesis
- B** protein synthesis
- C** respiration
- D** metabolism

6 - (0610/22_Winter_2017_Q1) 

To which group do **both** the organisms shown in the diagram belong?



- A** dicotyledons
- B** ferns
- C** fungi
- D** monocotyledons

7 - (0610/22_Winter_2017_Q2) 

The diagram shows a section of DNA from a chimpanzee.

A	G	C	T	A	C	A	G	A	G
---	---	---	---	---	---	---	---	---	---

Which diagram shows a section of DNA from the organism that is most closely related to the chimpanzee?

- A**

A	G	C	T	A	C	A	G	A	T
---	---	---	---	---	---	---	---	---	---
- B**

A	G	C	T	A	C	A	G	T	T
---	---	---	---	---	---	---	---	---	---
- C**

A	T	C	A	A	C	A	G	T	T
---	---	---	---	---	---	---	---	---	---
- D**

A	T	C	T	A	C	A	G	T	T
---	---	---	---	---	---	---	---	---	---

8 - (0610/23_Winter_2017_Q1) 

The plant *Mimosa pudica* has leaves that fold in when touched.

This demonstrates movement and which other characteristic?

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

9 - (0610/23_Winter_2017_Q2) 

The diagram shows a section of DNA from a chimpanzee.

A	G	C	T	A	C	A	G	A	G
---	---	---	---	---	---	---	---	---	---

Which diagram shows a section of DNA from the organism that is most closely related to the chimpanzee?

- A**

A	G	C	T	A	C	A	G	A	T
---	---	---	---	---	---	---	---	---	---
- B**

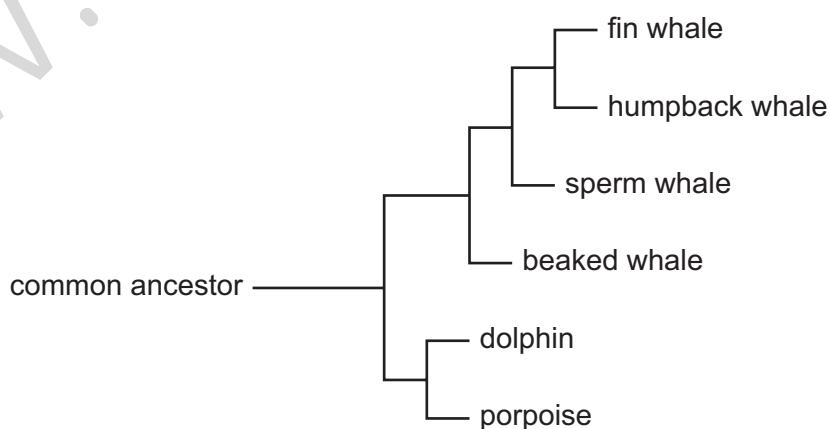
A	G	C	T	A	C	A	G	T	T
---	---	---	---	---	---	---	---	---	---
- C**

A	T	C	A	A	C	A	G	T	T
---	---	---	---	---	---	---	---	---	---
- D**

A	T	C	T	A	C	A	G	T	T
---	---	---	---	---	---	---	---	---	---

10 - (0610/23_Winter_2017_Q7) 

The diagram shows an evolutionary tree based on a computer-generated study of different sea mammals.



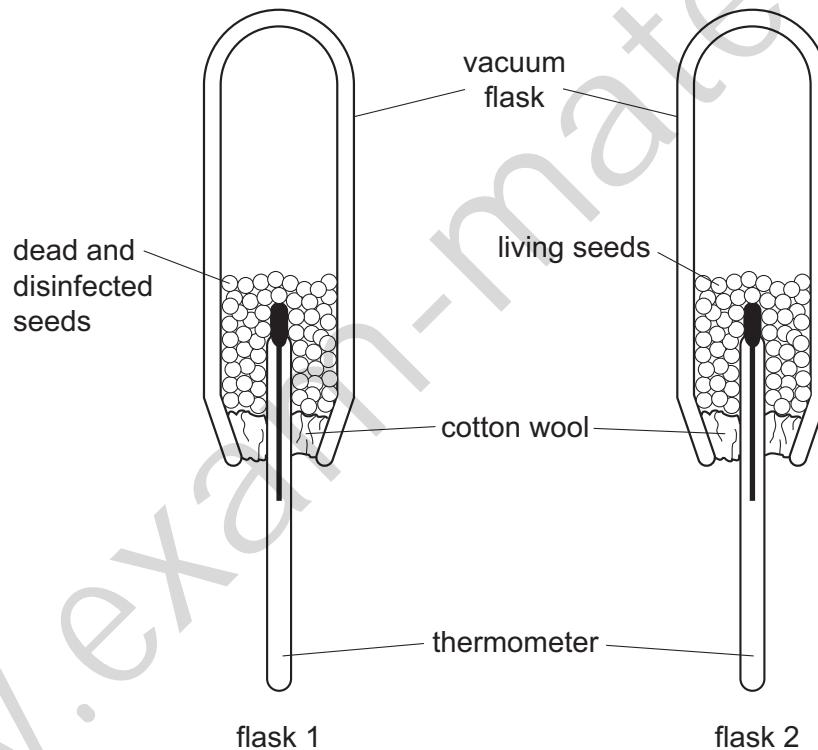
According to this evolutionary tree, which whale has DNA base sequences that are **least** shared with the other whales?

- A** beaked whale
- B** fin whale
- C** humpback whale
- D** sperm whale

11 - (0610/23_Winter_2017_Q11) 

The diagram shows the apparatus at the beginning of an investigation into temperature change during the germination of seeds. The temperature at the start of the investigation was 25°C in both flasks.

After two days the temperature in flask 1 is 25°C. The temperature in flask 2 is 28°C.



Which characteristic of living organisms is shown in this experiment?

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

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