

IGCSE Cambridge Topical Past Papers

BIOLOGY

0610 | Paper 2

2017 — 2024

Chapter 1	Characteristics & Classification of living organisms	Page 1
Chapter 2	Organization & Maintenance of the Organism	Page 42
Chapter 3	Movement in and out of Cells	Page 79
Chapter 4	Biological Molecules	Page 117
Chapter 5	Enzymes	Page 140
Chapter 6	Plant Nutrition	Page 174
Chapter 7	Human Nutrition	Page 218
Chapter 8	Transport in Plants	Page 268
Chapter 9	Transport in Animals	Page 318
Chapter 10	Diseases & Immunity	Page 352
Chapter 11	Gas Exchange in Humans	Page 376
Chapter 12	Respiration	Page 399
Chapter 13	Excretion in Humans	Page 427
Chapter 14	Co-Ordination & Response	Page 448
Chapter 15	Drugs	Page 500
Chapter 16	Reproduction	Page 514
Chapter 17	Inheritance	Page 560
Chapter 18	Variation & Selection	Page 604
Chapter 19	Organisms & Their Environment	Page 626
Chapter 20	Biotechnology & Genetic Engineering	Page 672
Chapter 21	Human Influences on Ecosystem	Page 704

CHAPTER 1

CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS

1 - (0610/21_Summer_2017_Q1) 

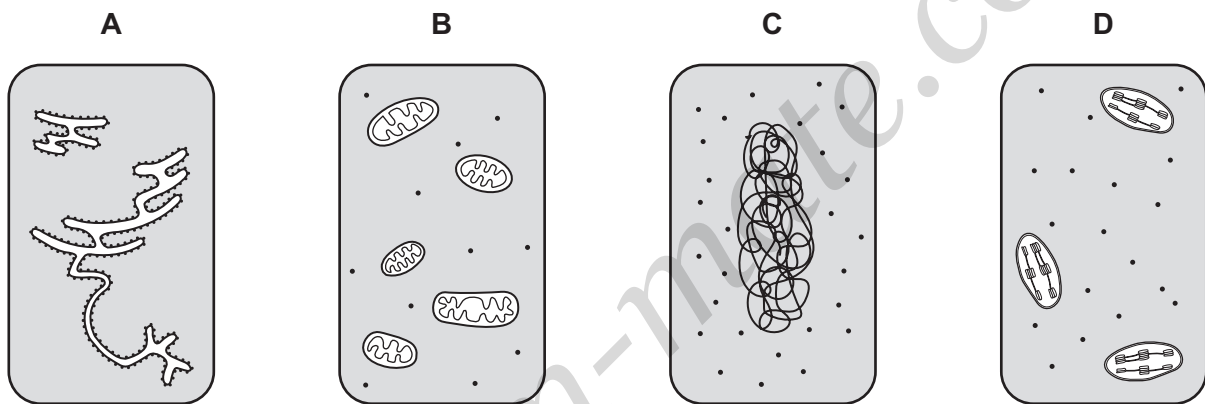

Which characteristic do **all** living organisms show?

- 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) 

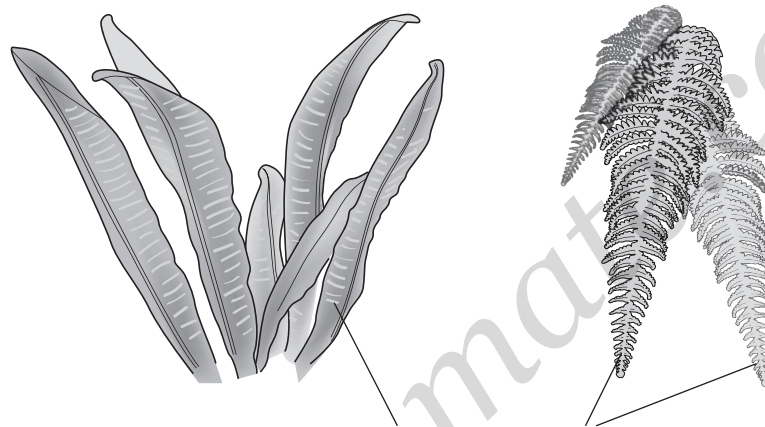
Which characteristic do **all** living organisms show?

- 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?

leaf-like fronds which have
structures containing spores
on their lower surface

- 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.

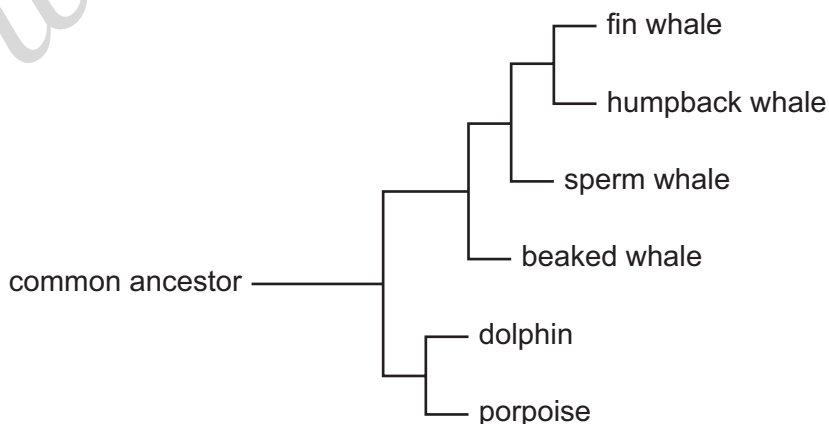


Which diagram shows a section of DNA from the organism that is most closely related to the chimpanzee?



10 - (0610/23_Winter_2017_Q7) 

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



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