

TOPICAL PAST PAPER QUESTIONS WORKSHEETS

IGCSE Biology (0610) Paper 1

[Multiple Choice (Core)]

Exam Series: Feb/Mar 2017 - May/Jun 2024

Format Type A:

Answers to all questions are provided as an appendix



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Introduction

Each Topical Past Paper Questions Compilation contains a comprehensive collection of hundreds of questions and corresponding answer schemes, presented in worksheet format. The questions are carefully arranged according to their respective chapters and topics, which align with the latest IGCSE or AS/A Level subject content. Here are the key features of these resources:

1. The workbook covers a wide range of topics, which are organized according to the latest syllabus content for Cambridge IGCSE or AS/A Level exams.
2. Each topic includes numerous questions, allowing students to practice and reinforce their understanding of key concepts and skills.
3. The questions are accompanied by detailed answer schemes, which provide clear explanations and guidance for students to improve their performance.
4. The workbook's format is user-friendly, with worksheets that are easy to read and navigate.
5. This workbook is an ideal resource for students who want to familiarize themselves with the types of questions that may appear in their exams and to develop their problem-solving and analytical skills.

Overall, Topical Past Paper Questions Workbooks are a valuable tool for students preparing for IGCSE or AS/A level exams, providing them with the opportunity to practice and refine their knowledge and skills in a structured and comprehensive manner. To provide a clearer description of this book's specifications, here are some key details:

- Title: Cambridge IGCSE Biology (0610) Paper 1 Topical Past Papers
- Subtitle: Exam Practice Worksheets With Answer Scheme
- Examination board: Cambridge Assessment International Education (CAIE)
- Subject code: 0610
- Years covered: Feb/Mar 2017 - May/Jun 2024
- Paper: 1 (Core)
- Number of pages: 785
- Number of questions: 1713

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Chapter 1

Characteristics and classification of living organisms

1.1 Characteristics of living organisms

1. 0610_m24_qp_12 Q: 1

What is a characteristic of all living organisms?

- A breathing
- B egestion
- C excretion
- D ingestion

_____ compiled by examinent.com _____

2. 0610_s24_qp_11 Q: 1

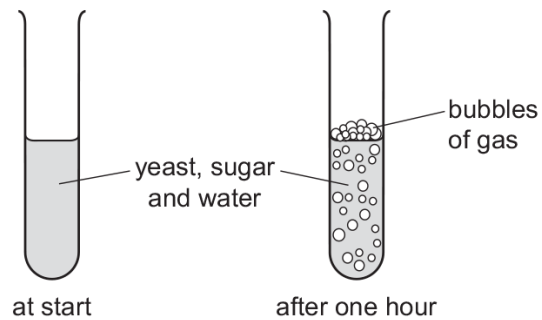
Which process do living organisms use to remove excess carbon dioxide from their bodies?

- A excretion
- B movement
- C nutrition
- D respiration

_____ compiled by examinent.com _____

3. 0610_s24_qp_12 Q: 1

Some yeast, sugar and water are mixed in a test-tube. The diagrams show the test-tube at the start and after one hour.



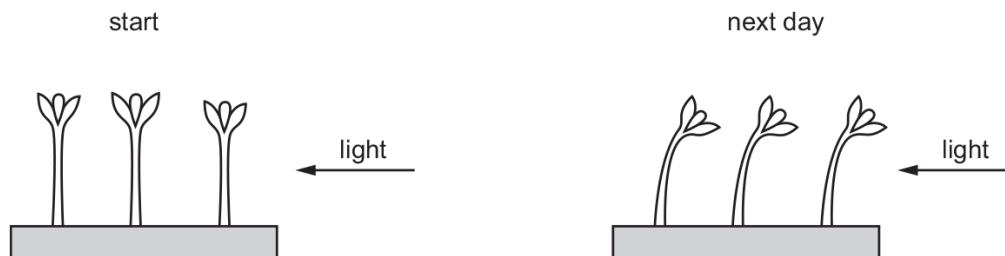
Which process causes this change?

- A growth
- B reproduction
- C respiration
- D sensitivity

_____ compiled by examinent.com _____

4. 0610_s24_qp_13 Q: 1

The diagram shows what happened in an experiment with plant seedlings.



Which characteristic of living things made the seedlings grow towards the light?

- A excretion
- B nutrition
- C respiration
- D sensitivity

_____ compiled by examinent.com _____

5. 0610_m23_qp_12 Q: 1

Which row shows substances removed by excretion?

	substances in excess of requirements	undigested food	waste products of metabolism	
A	✓	✓	✓	key ✓ = yes x = no
B	✓	✓	x	
C	✓	x	✓	
D	x	✓	✓	

Which two parts are included in the scientific name of an organism?

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

_____ compiled by examinent.com _____

6. 0610_s23_qp_11 Q: 1

What are characteristics of all organisms?

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

_____ compiled by examinent.com _____

7. 0610_s23_qp_12 Q: 1

Living animals release carbon dioxide.

This is an example of which life process?

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

_____ compiled by examinent.com _____

8. 0610_s23_qp_13 Q: 1

What are excretion, sensitivity and reproduction characteristics of?

- A all animals and all plants
- B animals only
- C plants only
- D some animals and some plants

_____ compiled by examinent.com _____

9. 0610_w23_qp_11 Q: 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

_____ compiled by examinent.com _____

10. 0610_w23_qp_12 Q: 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

_____ compiled by examinent.com _____

11. 0610_w23_qp_13 Q: 1

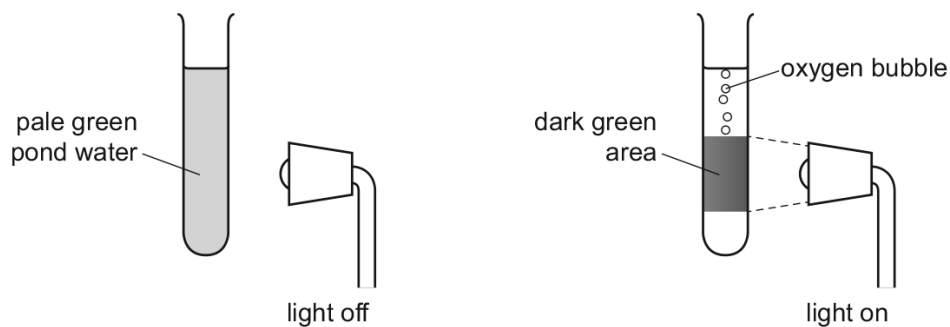
What are characteristics of all living organisms?

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

_____ compiled by examinent.com _____

12. 0610_m22_qp_12 Q: 1

The diagrams show a test-tube containing pond water. The green colour is caused by microorganisms that have chloroplasts.



Which characteristics of living organisms are shown?

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

_____ compiled by examinent.com _____

13. 0610_s22_qp_11 Q: 1

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

_____ compiled by examinent.com _____

14. 0610_w22_qp_11 Q: 1

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

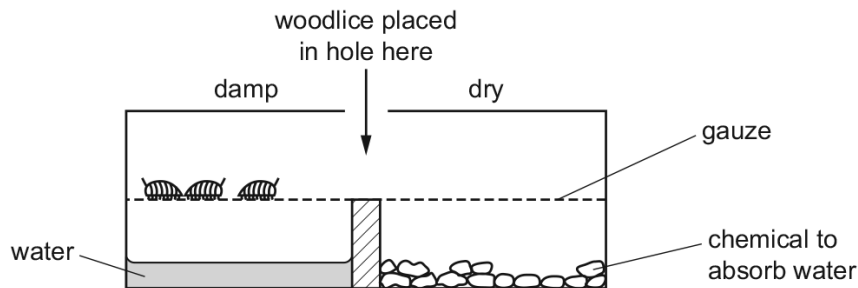
- A excretion
- B growth
- C nutrition
- D respiration

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15. 0610_m21_qp_12 Q: 1

Woodlice are small organisms that live in damp places.

In an experiment, three live woodlice are put into a glass container. The diagram shows what happens after 30 minutes.



Which characteristic of living organisms is shown by this experiment?

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

_____ compiled by examinent.com _____

16. 0610_s21_qp_11 Q: 1

What is a characteristic of all living organisms?

- A breathing
- B circulation
- C egestion
- D sensitivity

_____ compiled by examinent.com _____

17. 0610_w21_qp_11 Q: 1

Which characteristics of all living organisms are needed to release energy for growth?

- A breathing and respiration
- B excretion and nutrition
- C excretion and respiration
- D nutrition and respiration

_____ compiled by examinent.com _____

18. 0610_w21_qp_12 Q: 1

All living things can remove toxic materials and other substances that are in excess of requirements.

What is this process called?

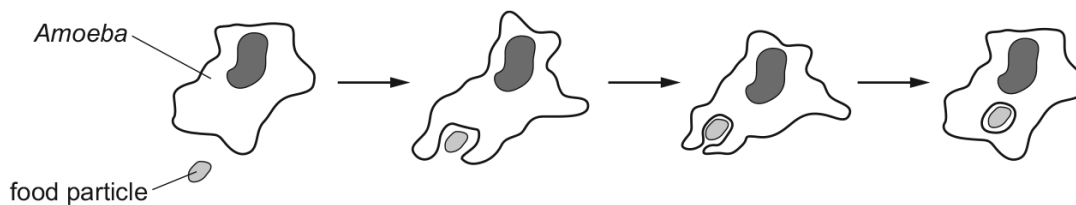
- A egestion
- B excretion
- C nutrition
- D respiration

_____ compiled by examinent.com _____

19. 0610_w21_qp_13 Q: 1

An *Amoeba* is a single-celled organism.

The diagram shows an *Amoeba* engulfing a food particle.



Which characteristics of living organisms are shown?

- A excretion, movement and nutrition
- B excretion, nutrition and sensitivity
- C movement, nutrition and sensitivity
- D movement, reproduction and sensitivity

_____ compiled by examinent.com _____

20. 0610_m20_qp_12 Q: 1

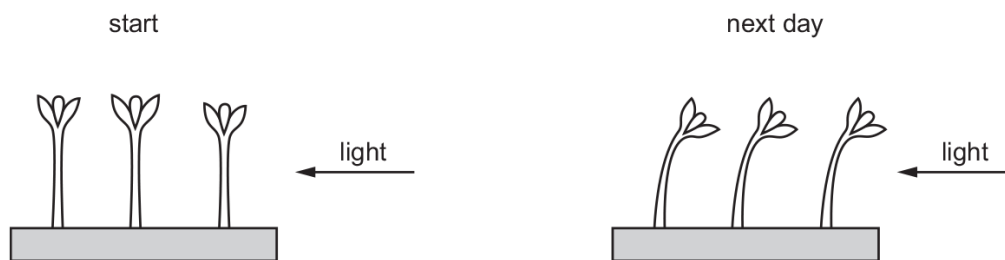
Which characteristic do **all** living organisms show?

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

_____ compiled by examinent.com _____

21. 0610_s20_qp_11 Q: 1

The diagram shows what happened in an experiment with plant seedlings.



Which characteristic of living things made the seedlings grow towards the light?

- A excretion
- B nutrition
- C respiration
- D sensitivity

_____ compiled by examinent.com _____

22. 0610_w20_qp_11 Q: 1

Hedgehogs are mammals. Touching a hedgehog causes it to roll into a ball to protect itself.

Which characteristics is it displaying?

- A excretion and movement
- B growth and sensitivity
- C movement and growth
- D movement and sensitivity

_____ compiled by examinent.com _____

23. 0610_w20_qp_12 Q: 1

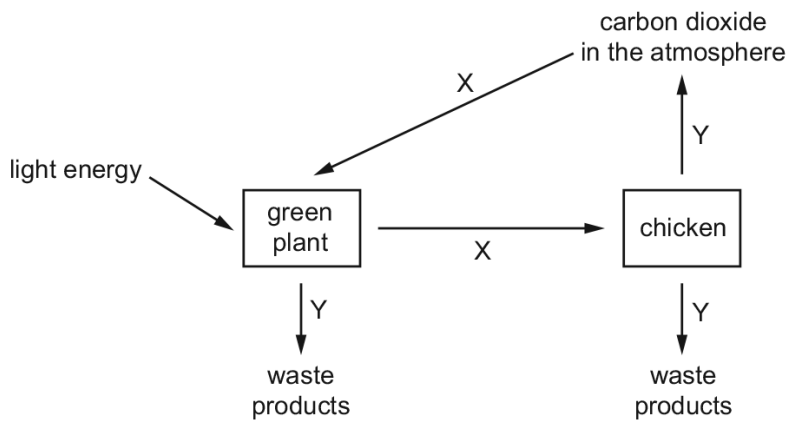
Which process is carried out by all organisms?

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

_____ compiled by examinent.com _____

24. 0610_w20_qp_13 Q: 1

The diagram shows some of the processes carried out by living organisms.



Which two characteristics of living organisms are represented by arrows X and Y?

- A excretion and sensitivity
- B nutrition and excretion
- C respiration and growth
- D sensitivity and reproduction

_____ compiled by examinent.com _____

25. 0610_m19_qp_12 Q: 1

A living organism, X, can make its own food, get rid of toxic materials and detect and respond to stimuli.

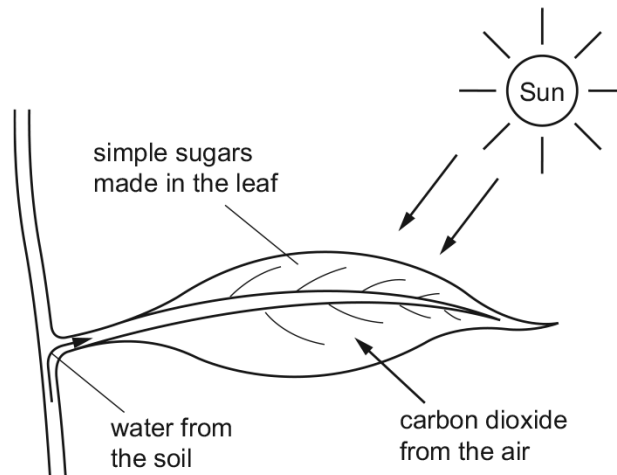
What **other** four processes must organism X carry out to stay alive?

- A excretion, growth, movement, sensitivity
- B excretion, growth, nutrition, respiration
- C growth, movement, reproduction, respiration
- D movement, reproduction, respiration, sensitivity

_____ compiled by examinent.com _____

26. 0610_s19_qp_11 Q: 1

The diagram shows a leaf on a plant.



Which characteristic of life is represented by this diagram?

- A excretion
- B nutrition
- C respiration
- D sensitivity

_____ compiled by examinent.com _____

27. 0610_s19_qp_12 Q: 1

Carbon dioxide diffuses into a leaf.

Which characteristic of living things requires this?

- A excretion
- B movement
- C nutrition
- D respiration

_____ compiled by examinent.com _____

28. 0610_s19_qp_13 Q: 1

Students find a small organism in a pond. They catch it and put it into a large jar of water. They see that the organism swims away from light. It lays some eggs before they put it back into the pond.

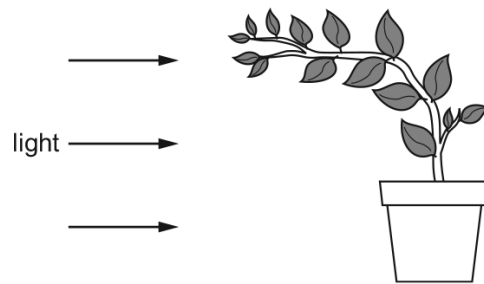
Which characteristics of living things did the students see in this organism?

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

_____ compiled by examinent.com _____

29. 0610_w19_qp_11 Q: 1

The diagram shows a plant.



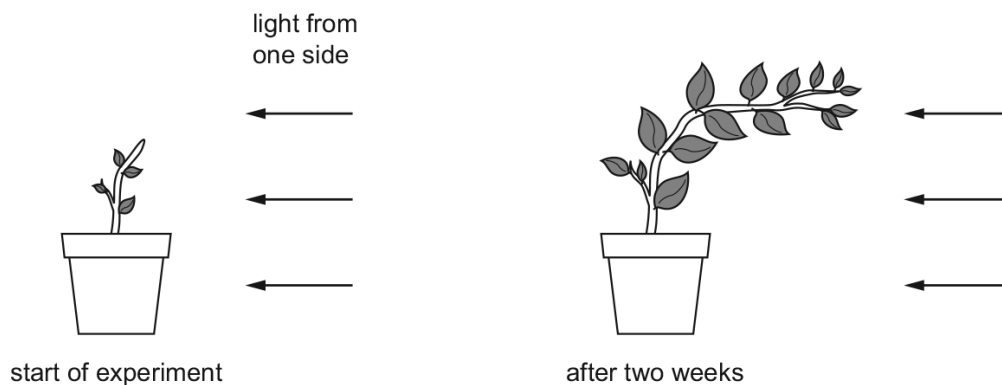
Which characteristic of living organisms is shown by the plant in the diagram?

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

_____ compiled by examinent.com _____

30. 0610_w19_qp_13 Q: 1

The diagrams show a plant at the start of an experiment, and the same plant two weeks later.



Which characteristics of living organisms are demonstrated by this experiment?

- A excretion, growth, movement
- B excretion, movement, reproduction
- C growth, movement, sensitivity
- D sensitivity, growth, respiration

_____ compiled by examinent.com _____

31. 0610_s18_qp_11 Q: 1

Which organisms carry out respiration, growth, movement and excretion?

- A all animals and all plants
- B animals only
- C arthropods and flowering plants only
- D plants only

_____ compiled by examinent.com _____

32. 0610_w18_qp_11 Q: 1

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

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

_____ compiled by examinent.com _____

33. 0610_w18_qp_12 Q: 1

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

_____ compiled by examinent.com _____

34. 0610_w18_qp_13 Q: 1

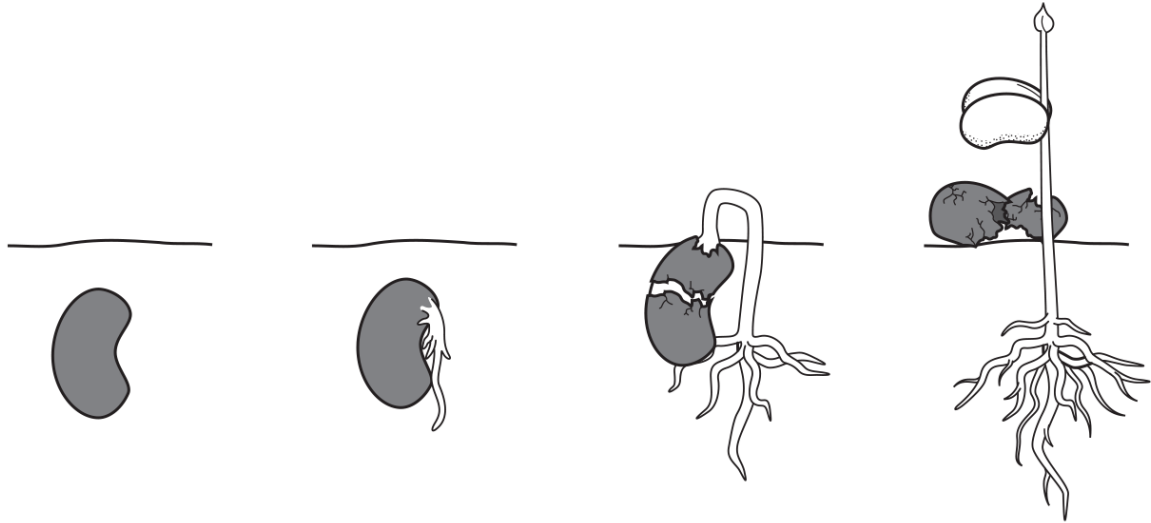
Which process occurs both in plants and in animals?

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

_____ compiled by examinent.com _____

35. 0610_m17_qp_12 Q: 2

The diagram shows how a seed changes after it is planted in soil and watered.



Which characteristics of living things are demonstrated by this sequence?

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

_____ compiled by examinent.com _____

36. 0610_w17_qp_11 Q: 1

Which process in plant cells uses chlorophyll?

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

_____ compiled by examinent.com _____

37. 0610_w17_qp_13 Q: 1

Which process releases water and energy?

- A aerobic respiration
- B osmosis
- C photosynthesis
- D protein synthesis

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1.2 Concept and uses of classification systems

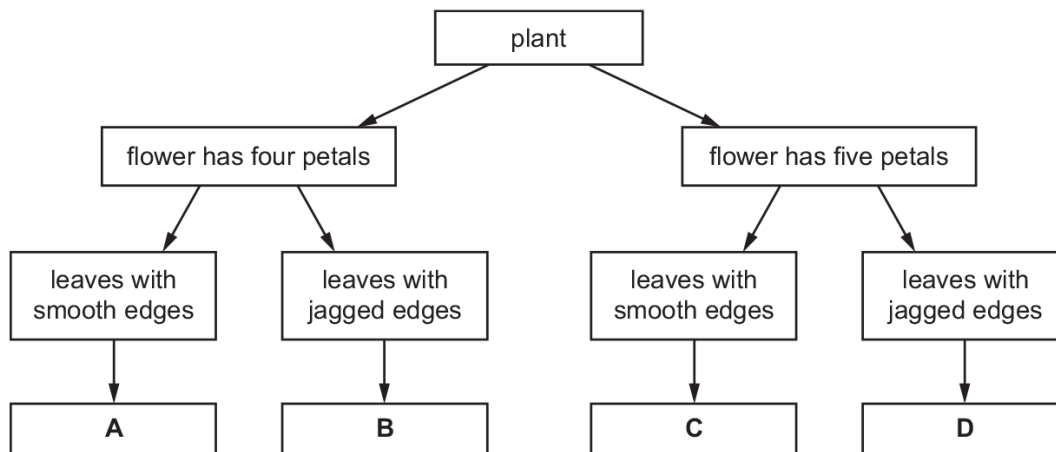
38. 0610_m24_qp_12 Q: 2

The diagram shows a flowering plant.



A key can be used to identify the plant.

Which letter in the key identifies the flowering plant shown in the diagram?



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39. 0610_s24_qp_11 Q: 3

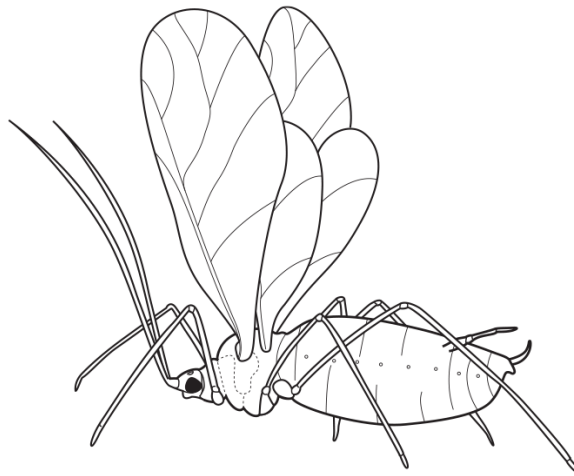
What does the term species mean?

- A a group of animals that reproduce asexually
- B a group of organisms that can reproduce to produce fertile offspring
- C all the plants that live in the same area at the same time
- D a group of vertebrates that reproduce sexually

_____ compiled by examinent.com _____

40. 0610_s24_qp_12 Q: 2

The diagram shows an animal.



Use the key to identify the animal.

1	has two wings	go to 2
	has four wings	go to 3
2	has antennae much shorter than legs	A
	has antennae about the same length as legs	B
3	has feathery antennae	C
	has smooth antennae	D

_____ compiled by examinent.com _____

Appendix A

Answers

SN	Paper	Q. No.	ANSWER
1	0610_m24_qp_12	1	C
2	0610_s24_qp_11	1	A
3	0610_s24_qp_12	1	C
4	0610_s24_qp_13	1	D
5	0610_m23_qp_12	1	C
6	0610_s23_qp_11	1	C
7	0610_s23_qp_12	1	A
8	0610_s23_qp_13	1	A
9	0610_w23_qp_11	1	C
10	0610_w23_qp_12	1	C
11	0610_w23_qp_13	1	D
12	0610_m22_qp_12	1	B
13	0610_s22_qp_11	1	C
14	0610_w22_qp_11	1	C
15	0610_m21_qp_12	1	D
16	0610_s21_qp_11	1	D
17	0610_w21_qp_11	1	D
18	0610_w21_qp_12	1	B
19	0610_w21_qp_13	1	C
20	0610_m20_qp_12	1	B
21	0610_s20_qp_11	1	D
22	0610_w20_qp_11	1	D
23	0610_w20_qp_12	1	A
24	0610_w20_qp_13	1	B
25	0610_m19_qp_12	1	C
26	0610_s19_qp_11	1	B
27	0610_s19_qp_12	1	C
28	0610_s19_qp_13	1	C
29	0610_w19_qp_11	1	D
30	0610_w19_qp_13	1	C
31	0610_s18_qp_11	1	A
32	0610_w18_qp_11	1	A
33	0610_w18_qp_12	1	C
34	0610_w18_qp_13	1	A
35	0610_m17_qp_12	2	B
36	0610_w17_qp_11	1	B
37	0610_w17_qp_13	1	A
38	0610_m24_qp_12	2	D
39	0610_s24_qp_11	3	B
40	0610_s24_qp_12	2	D
41	0610_s24_qp_12	3	D
42	0610_s24_qp_13	32	B
43	0610_m23_qp_12	2	B
44	0610_s23_qp_11	2	A
45	0610_s23_qp_12	2	D
46	0610_s23_qp_13	2	A
47	0610_w23_qp_11	2	B
48	0610_w23_qp_12	2	B
49	0610_w23_qp_13	2	B

SN	Paper	Q. No.	ANSWER
50	0610_m22_qp_12	2	D
51	0610_s22_qp_11	2	A
52	0610_s22_qp_12	2	C
53	0610_s22_qp_13	2	C
54	0610_w22_qp_11	2	C
55	0610_m21_qp_12	2	D
56	0610_s21_qp_11	2	C
57	0610_s21_qp_12	2	D
58	0610_s21_qp_13	2	B
59	0610_w21_qp_11	2	B
60	0610_w21_qp_13	2	C
61	0610_s20_qp_11	2	A
62	0610_w20_qp_11	2	B
63	0610_m19_qp_12	2	A
64	0610_m19_qp_12	3	C
65	0610_s19_qp_11	2	C
66	0610_s19_qp_12	3	C
67	0610_s19_qp_13	3	D
68	0610_w19_qp_11	2	B
69	0610_w19_qp_11	5	A
70	0610_w19_qp_12	2	D
71	0610_m18_qp_12	3	D
72	0610_s18_qp_11	2	B
73	0610_w18_qp_11	2	B
74	0610_w18_qp_11	3	A
75	0610_w18_qp_12	2	A
76	0610_s17_qp_13	3	B
77	0610_w17_qp_11	2	C
78	0610_w17_qp_11	3	B
79	0610_w17_qp_12	2	A
80	0610_w17_qp_12	3	D
81	0610_w17_qp_13	2	C
82	0610_m24_qp_12	3	C
83	0610_s24_qp_11	2	C
84	0610_s24_qp_12	4	B
85	0610_s24_qp_13	3	A
86	0610_m23_qp_12	3	B
87	0610_s23_qp_11	3	B
88	0610_s23_qp_12	3	A
89	0610_s23_qp_13	3	A
90	0610_w23_qp_11	3	C
91	0610_w23_qp_12	3	A
92	0610_w23_qp_13	3	C
93	0610_m22_qp_12	3	A
94	0610_s22_qp_11	3	A
95	0610_s22_qp_12	3	A
96	0610_s22_qp_13	3	B
97	0610_w22_qp_11	3	C
98	0610_m21_qp_12	3	C

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