Living Creatures: Exploring their Characteristics

Standard difficulty · 20 questions · 40 marks · Time: 36 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. Which of these is a feature of all living things?
(a) they can fly **(b)** they are large **(c)** they are green **(d)** they grow

2. Which of these is a living thing?
(a) an ant **(b)** a river **(c)** a candle flame **(d)** a mobile phone

3. Which of these is NOT a living thing?
(a) grass **(b)** a seed **(c)** a dog **(d)** a cloud

4. Which of these is true of ALL living things?
(a) they have legs **(b)** they can fly
(c) they reproduce **(d)** they make sounds

5. In the life of a frog, what comes right before "froglet"?
(a) chick **(b)** cocoon **(c)** caterpillar **(d)** tadpole

6. 30 moong seeds were kept on wet cotton and 23 sprouted. How many did not sprout?
(a) 7 seeds **(b)** 9 seeds **(c)** 23 seeds **(d)** 53 seeds

7. A seedling is 3 cm tall and grows 3 cm every day. How tall will it be after 8 days?
(a) 14 cm **(b)** 72 cm **(c)** 24 cm **(d)** 27 cm

8. A child breathes 16 times a minute at rest and 40 times a minute after running. How many more breaths a minute after running?
(a) 40 **(b)** 56 **(c)** 24 **(d)** 16

Section B — Short answer — 8 × 2 = 16 marks

9. List five features of living things.

10. Write "living" or "non-living": (a) a candle flame (b) a mango tree

11. In the life of a frog, what comes after (a) froglet (b) egg?

12. Out of 90 seeds, 70 sprouted in warm, wet conditions. How many did not?

13. A bean seedling's height on five days was 3 cm, 5 cm, 8 cm, 10 cm, 13 cm. How much did it grow from the first day to the last?

14. What stimulus is each living thing responding to? (a) roots growing towards water (b) a sunflower turning to face the Sun

15. A survey found mosquito larvae in 6 coolers, about 120 in each. How many larvae is that? Why should coolers be emptied every week?

16. A tadpole grows 2 mm a day. How much will it grow in 3 weeks?

Section C — Word problems — 4 × 4 = 16 marks

17. A wooden log, a seed and a dog: which are living, which are not, and why?

18. Three sets of 20 seeds were kept: on wet cotton in a warm room, on dry cotton, and on wet cotton in a fridge. 18, 3 and 2 seeds sprouted. (a) Which set sprouted best? (b) What do the dry and cold sets show? (c) How many seeds sprouted in all?

19. Put these stages of the life of a frog in order: tadpole, egg, adult frog, froglet. What is the big change in body form called?

20. Sort these into living and non-living, and give a reason for one of each: an ant, grass, a seed, a robot, a mobile phone, a candle flame.

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Answer key

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Q	Answer	Working
1	(d) they grow	—
2	(a) an ant	—
3	(d) a cloud	—
4	(c) they reproduce	—
5	(d) tadpole	egg → tadpole → froglet → adult frog
6	(a) 7 seeds	30 − 23 = 7
7	(d) 27 cm	3 + 3 × 8 = 27
8	(c) 24	40 − 16 = 24
9	They grow, need food, breathe, excrete, respond to changes, reproduce and die (any five).	—
10	(a) non-living (b) living	—
11	(a) adult frog (b) tadpole	egg → tadpole → froglet → adult frog
12	20 seeds	90 − 70 = 20
13	10 cm	13 − 3
14	(a) they respond to water (b) it responds to light	—
15	720 larvae; emptying breaks the mosquito life cycle before the larvae become adults.	6 × 120
16	42 mm	2 × 3 × 7 = 42
17	The dog is living: it eats, breathes, grows and reproduces. The seed is living but resting; it grows when it gets water and air. The wooden log is not living now: it was part of a tree but cannot grow, breathe or reproduce.	—
18	(a) Wet and warm (18). (b) Seeds need water and a suitable (warm) temperature to germinate. (c) 23	—
19	egg → tadpole → froglet → adult frog. Metamorphosis.	—
20	Living: an ant, grass, a seed. Non-living: a robot, a mobile phone, a candle flame. Living things grow, breathe, need food and reproduce; non-living things do not.	—