Year 7 Science test

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Logo

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Weighting: 20%

Task 6: Classification test

Total: /36

**Multiple choice (10 marks)**

1. Out of these animals: cat, dog, bird, rabbit, which is the odd one out?

(a) Cat

(b) Dog

(c) Bird

(d) Rabbit

2. A vertebrate is an animal:

(a) that can fly

(b) that has a backbone

(c) that does not have a backbone

(d) that lives on land

3. Which of the following is not a member of the plant kingdom?

(a) trees

(b) mushrooms

(c) grass

(d) moss

4. What are three defining features of mammals?

(a) they have hair, scales and feed milk to their young

(b) they have hair, lay eggs and are endothermic (warm-blooded)

(c) they have hair, are endothermic (warm-blooded) and feed milk to their young

(d) none of the above

5. A decomposer is:

(a) an organism that breaks down dead or decaying organisms

(b) an organism that can make it’s own food from sunlight

(c) an animal that hunts down it’s prey

(d) a dying organism

6. A producer’s role in an ecosystem is to:

(a) produce offspring

(b) use the sun’s energy to produce energy

(c) consume other organisms

(d) none of the above

7. Select the level of classification in which organisms are the most similar:

(a) Kingdom

(b) Genus

(c) Order

(d) Species

8. The scientific name comes from combining the:

(a) Family and species

(b) Genus and species

(c) Kingdom and phylum

(d) Genus and the name of the scientist who discovered it

9. Which is an example of a predator/ prey relationship?

(a) A horse eating grass

(b) A vine hanging on a tree

(c) A fox eating a rabbit

(d) A tick on a deer

10. What could the X be in the food chain below?

Plant → X → Mouse → Snake

(a) Cow

(b) Slug

(c) Corn

(d) Eagle

**Short answer**

11. Tick the features of the following class of vertebrate (3 marks)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Vertebrate | Warm blooded | Give birth to live young | Feed offspring milk | Undergo meta-morphis | Have a spinal cord |
| Reptiles |  |  |  |  |  |
| Mammals |  |  |  |  |  |
| Amphibian |  |  |  |  |  |

12. Explain using the seven characteristics of living things why plants are considered ‘living’. (4 marks)

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13. Write the missing levels of classification in the list below in the correct space. (4 marks)

|  |
| --- |
| Kingdom |
|  |
|  |
| Order |
|  |
| Genus |
|  |

14. Use the dichotomous key below to answer the questions

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1. What is the name of the yellow alien? (1 mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Look at the species name of each of the aliens. What is clearly used to help name the species? Provide an example in your response (2 marks)

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15. Use the food web below to answer the following questions.

Diagram

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1. Identify one of each of the following: (2 marks)

Producer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Secondary consumer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Draw a four-step food chain that occurs in this food web (2 marks)
2. Describe in detail what could happen if the lizard was removed from the food chain (3 marks)

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16. Create a branching dichotomous key for the animals below using physical features only. (5 marks)

Diagram

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