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**Science Year 7 2021**

**Task 6 – Classification Biology Test**

**Weighting – 20%**

Student Name: \_\_\_\_**ANSWERS**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mrs Davies Mr Matthews Ms Van Wees Mrs Wiltschut Mr Wheeler

Section 1: Multiple Choice \_\_\_\_\_\_/ 10 marks

Section 2: Short Answer \_\_\_\_\_\_\_/ 29 marks

**Total: \_\_\_\_\_\_/ 39 Marks %**

**Section One: Multiple choice (10 marks)**

*Select the most correct answer*

1. Out of these animals: cat, dog, bird, rabbit, which is the odd one out?
2. **Bird**
3. Cat
4. Dog
5. Rabbit
6. A vertebrate is an animal:
7. that can fly
8. that does not have a backbone
9. that lives on land
10. **that has a backbone**
11. Which of the following is not a member of the plant kingdom?
12. trees
13. grass
14. moss
15. **mushrooms**
16. What are three defining features of mammals?
17. they have hair, scales and feed milk to their young
18. they have hair, lay eggs and are endothermic (warm-blooded)
19. **they have hair, are endothermic (warm-blooded) and feed milk to their young**
20. none of the above
21. A decomposer is:
22. **an organism that breaks down dead or decaying organisms**
23. an organism that can make its own food from sunlight
24. an animal that hunts down it’s prey
25. a dying organism
26. A producer’s role in an ecosystem is to:
27. produce offspring
28. **use the sun’s energy to produce energy**
29. consume other organisms
30. none of the above
31. Select the level of classification in which organisms are the most similar:
32. Kingdom
33. Genus
34. Order
35. **Species**
36. The scientific name comes from combining the:

1. Family and species
2. **Genus and species**
3. Kingdom and phylum
4. Genus and the name of the scientist who discovered it
5. Which is an example of a predator/ prey relationship?
6. A horse eating grass
7. A vine hanging on a tree
8. **A fox eating a rabbit**
9. A tick on a deer
10. What could the X be in the food chain below?

Plant → X → Mouse → Snake

1. Cow
2. **Slug**
3. Corn
4. Eagle

**Section Two: Short Answer (29 marks)**

11. Tick which features belong to the three classes of vertebrates listed below. (3 marks)

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

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

**M – Plants can move in response to light**

**R – Plants reproduce and create new plants**

**S- Plants are sensitive to light and gases in the air**

**G – Plants can grow**

**R – Plants respire to produce energy**

**E – Plants excrete oxygen and waste products**

**N – Plants need nutrition from soil**

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

|  |
| --- |
| Kingdom |
| **Phylum** |
| **Class** |
| Order |
| **Family** |
| Genus |
| **Species** |

14. Use the dichotomous key below to answer the questions

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1. What is the name of the yellow alien? \_**\_Alienus blobicus\_\_**\_\_ (1 mark)
2. 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)

**Physical Characteristics – 1**

**Alienus tritoothicus has 3 teeth (or any other example) – 1**

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: **gum tree or grass or wattle**

Secondary consumer: **lizard or echidna or dingo**

1. Draw a four-step food chain that occurs in this food web (2 marks)

**Gum tree 🡪 termites 🡪 echidna 🡪 dingo or any suitable chain**

**Deduct 1 mark for arrows incorrect direction**

1. Describe in detail what could happen if the lizard was removed from the food chain (3 marks)

**Crickets would increase in number – 1 (fewer predators)**

**Grass would decrease in number – 1 (more predators – crickets))**

**Eagles and kookaburras would decrease in number – 1 (less food)**

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

Diagram

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Draw your key in the space below:

**Branching – 1**

**Two options at each branch – 1**

**All species listed at end of one branch only – 1**

**Uses only physical features – 1**

**Neat - 1**

**End of Test**