

Year 7 Science 2018 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_

**Biology 1 Test**

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_

**SECTION 1: MULTIPLE CHOICE** (1 mark each)

Circle your answer in the section on page 2.

1. Which of these features is **least useful** for classifying animals?
   1. Cell and body structure
   2. Body covering
   3. Size
   4. Reproduction method
2. Which class do **humans** belong to?
   1. Animals
   2. Mammals
   3. Reptiles
   4. Amphibians
3. Insects, spiders and crabs are all **classified** as
   1. Vertebrates
   2. Molluscs
   3. Arthropods
   4. Mammals
4. Which of these pairs are most **closely related**?
   1. humans and snails
   2. butterflies and worms
   3. sharks and stingrays
   4. coral and starfish
5. The scientific name of **humans** is
   1. Felis catus
   2. Homo sapiens
   3. Canis vulpes
   4. Eucalyptus marginate
6. Which of these shows **correct sequence** for classification?
   1. Kingdom, Phylum, Class, Order, Family, Genus, Species
   2. Kingdom, Class, Phylum, Order, Family, Genus, Species
   3. Kingdom, Order, Family, Phylum, Class, Genus, Species
   4. Kingdom, Genus, Family, Phylum, Order, Class, Species
7. Which of these is **not** an insect?
   1. Butterfly
   2. Ant
   3. Cockroach
   4. Scorpion
8. Animals with **backbones** are called
   1. invertebrates.
   2. vertebrates.
   3. arthropods.
   4. mammals.
9. Animals that **breathe air** and have **dry scales** are called
   1. reptiles
   2. amphibians
   3. fish
   4. birds
10. **Monotremes, marsupials and placentals** are types of
    1. mammals
    2. birds
    3. amphibians
    4. reptiles

**Multiple Choice Answer Section**

Circle your answer in the section below:

1. A B C D 6. A B C D
2. A B C D 7. A B C D
3. A B C D 8. A B C D
4. A B C D 9. A B C D
5. A B C D 10. A B C D

Total for M/C: \_\_\_\_\_ / 10 marks

**SECTION 2: WRITTEN ANSWER**  (20 marks)

Write your answers in the spaces provided.

1. List the **7 life processes** that all living things undergo

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1 mark each: \_\_\_\_ / 7 marks)

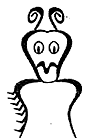
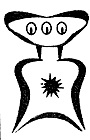
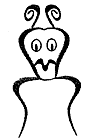
2. Match the **plant group** to its **description**

*Join the triangles with a line using a ruler*

|  |  |
| --- | --- |
| 1 Vascular plants ► | ◄ a) branching veins and two seed-leaf; herbs, shrubs and trees |
| 2 Ferns ► | ◄ b) have a rhizome (underground stem) and reproduce by spores |
| 3 Conifers ► | ◄ c) contain tubes with fluid in them; include ferns, conifers and flowering plants |
| 4 Angiosperms ► | ◄ d) have no roots, stems or veins’; include mosses and liverworts |
| 5 Non-vascular plants ► | ◄e) reproduce by flowers and seeds |
| 6 Monocotyledons ► | ◄f) once thought to be a type of plant, this is not a plant at all because it can not undergo photosynthesis |
| 7 Dicotyledons ► | ◄g) reproduce by seeds in cones, eg pine trees |
| 8 Fungi ► | ◄h) parallel veins and only one seed-leaf; grasses |

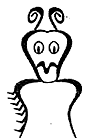
(1 mark each: \_\_\_\_\_ / 8 marks)

3. Use the dichotomous key below to **identify the following creatures** and write in the area indicated on the next page:

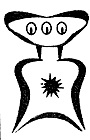
a) b) c) d) e)

|  |  |
| --- | --- |
| 1. | a. The creature has a large wide head..................go to 2 |
|  | b. The creature has a small narrow head................go to 11 |
| 2. | a. It has 3 eyes ......................................go to 3 |
|  | b. It has 2 eyes ......................................go to 7 |
| 3. | a. There is a star in the middle of its chest..........go to 4 |
|  | b. There is no star in the middle of its chest ........go to 6 |
| 4. | a. The creature has hair spikes .......................*Broadus hairus* |
|  | b. The creature has no hair spikes.....................go to 5 |
| 5. | a. The bottom of the creature is arch-shaped ..........*Broadus archus* |
|  | b. The bottom of the creature is M-shaped .............*Broadus emmus* |
| 6. | a. The creature has an arch-shaped bottom .............*Broadus plainus* |
|  | b. The creature has an M-shaped bottom.................*Broadus tritops* |
| 7. | a. The creature has hairy spikes ......................go to 8 |
|  | b. The creature has no spikes..........................go to 10 |
| 8. | a. There is a star in the middle of its body ..........*Broadus hairystarus* |
|  | b. The is no star in the middle of its body ...........go to 9 |
| 9. | a. The creature has an arch shaped bottom .............*Broadus hairyemmus* |
|  | b. The creature has an M shaped bottum ................*Broadus kiferus* |
| 10. | a. The body is symmetrical ............................*Broadus walter* |
|  | b. The body is not symmetrical.........................*Broadus anderson* |
| 11. | a. The creatrue has no antennae .......................go to 12 |
|  | b. The creature has antennae ..........................go to 14 |
| 12. | a. There are spikes on the face .......................*Narrowus wolfus* |
|  | b. There are no spikes on the face ....................go to 13 |
| 13. | a. The creature has no spike anywhere .................*Narrowus blankus* |
|  | b. There are spikes on the right leg ..................*Narrowus starboardus* |
| 14. | a. The creature has 2 eyes.............................go to 15 |
|  | b. The creature has 1 eye..............................*Narrowus cyclops* |
| 15. | a. The creature has a mouth............................go to 16 |
|  | b. The creature has no mouth...........................go to 17 |
| 16. | a. There are spikes on the left leg ...................*Narrowus portus* |
|  | b. There are no spikes at all .........................*Narrowus plainus* |
| 17. | a. The creature has spikes ............................go to 18 |
|  | b. The creature has no spikes .........................*Narrowus georginia* |
| 18. | a. There are spikes on the head .......................go to 19 |
|  | b. There are spikes on the right leg...................*Narrowus montanian* |
| 19. | a. There are spikes covering the face .................*Narrowus beardus* |
|  | b. There are spikes only on the outside edge of head ..*Narrowus fuzzus* |

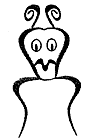
Name of creature a)

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

Name of creature b)

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

Name of creature c)

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

Name of creature d)

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

Name of creature e)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1 mark each: \_\_\_\_ / 5 marks)

**END OF TEST (Out of 30 Marks)**