



Name _____ Class _____ Roll no. _____ Date _____ Marks _____ / 35

1 Key words**[4]**

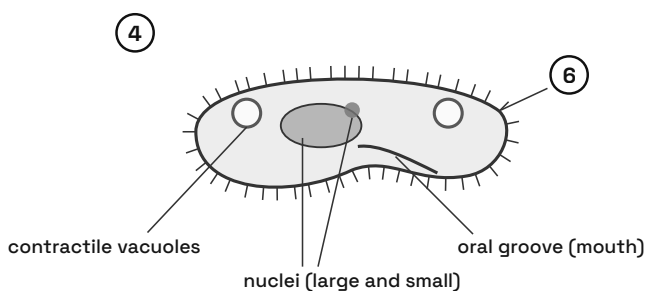
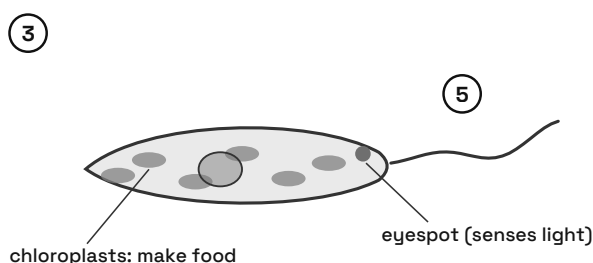
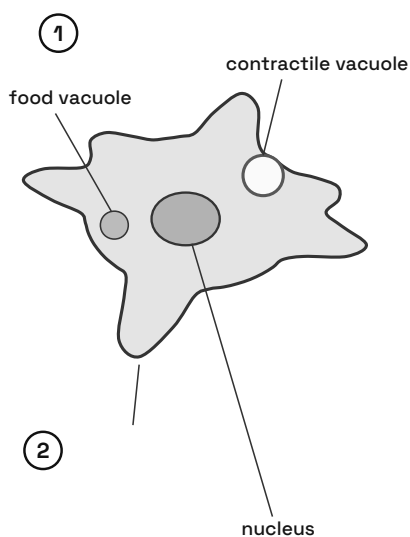
Fill in the blanks with words from the box. Two words in the box are not needed. Each blank carries 0.5 mark.

binomial chitin genus hyphae peptidoglycan phylum prokaryotes taxon
taxonomy Whittaker

The science of classifying and naming organisms is called _____. Carolus Linnaeus gave every species a name of two words: this is the _____ system of nomenclature. The first word of a scientific name is the _____, and the second is the species. Each level of the hierarchy of classification, such as a class or an order, is called a _____. Organisms whose cells have no proper nucleus are called _____. The five-kingdom system was proposed by Robert H. _____ in 1969. The body of a fungus is made of fine threads called _____, and the cell walls of fungi are made of _____.

2 Label the diagram**[3]**

The diagram shows three protists. Name the organisms and the parts they move with, numbered 1 to 6. Each carries 0.5 mark.



1. _____
2. _____
3. _____
4. _____
5. _____

6. _____
7. _____
8. _____
9. _____
10. _____



[5]

Choose the correct option for each of the following questions.

- i. Which kingdom do blue-green algae belong to? [1]
 - a. Monera
 - b. Protista
 - c. Fungi
 - d. Plantae
- ii. Who founded the binomial system of nomenclature? [1]
 - a. Carolus Linnaeus
 - b. R. H. Whittaker
 - c. Édouard Chatton
 - d. Robert Koch
- iii. What makes Euglena different from animals? [1]
 - a. it has chlorophyll
 - b. it is unicellular
 - c. it is found in water
 - d. it depends on other organisms
- iv. Which of these is a prokaryotic microorganism? [1]
 - a. Azotobacter
 - b. Euglena
 - c. yeast
 - d. Amoeba
- v. Which of these is written correctly? [1]
 - a. Panthera Tigris
 - b. panthera tigris
 - c. Panthera tigris
 - d. Tigris panthera

[3]

Write very short answers to the following questions.

- a. Which is the smallest unit (taxon) of classification? [1]
-
-
- b. Which fungus is used to make bread dough rise? [1]
-
-
- c. In a lichen, which partner makes the food? [1]
-

[10]

Write short answers to the following questions.

- a. Give a reason: the five-kingdom system is more scientific than the two-kingdom system. [2]
-
-
-



b. Give a reason: fungi are also called saprophytes. [2]

c. Write any two differences between prokaryotes and eukaryotes. [2]

d. Write any two differences between a genus and a species. [2]

e. Write the kingdom of each: Euglena, Azotobacter, Mucor and Plasmodium. [2]

6 Long answers [8]

Write long answers to the following questions.

a. Explain how the taxa in the hierarchy of classification are related, with the human as an example. [4]

b. Present the characteristics of kingdom Monera, with examples. [4]



7 Think

[2]

Think, then answer.

A horse and a donkey can mate and have a mule. So why are they two species?

8 Activity: Who is the nearest relative?

(not marked)

Look at these eight organisms: a tiger, a lion, a donkey, a horse, a groundnut plant, a potato plant, a lemon tree and an orange tree. For each one in the table, write the organism most like it, and the reason.

Organism	Nearest relative	Why?
tiger		
potato		
orange		
horse		

Is the potato's real nearest relative in this list? Find out which plants it is most like.

