

# 18.1 Classification

## Question Paper

Course	CIEA Level Biology
Section	18. Classification, Biodiversity & Conservation
Topic	18.1 Classification
Difficulty	Medium

**Time allowed:** 30  
**Score:** /17  
**Percentage:** /100

**Question 1a**

Identify all the eukaryotic kingdoms that contain...

(i)  
Autotrophic organisms

[1]

(ii)  
Heterotrophic organisms

[1]

[2 marks]

**Question 1b**

Complete Table 1 below.

**Table 1**

Feature	Protoctista	Fungi	Plantae	Animalia
Cell walls	Present in some species			X
Cell vacuoles		√		
Cilia/flagella	Present in some species		X	
Motility (ability to move themselves)	Present in some species		X	
Nervous coordination		X		√

[4 marks]

### Question 1c

Fruit flies are a group of organisms within the kingdom Animalia. A student collected three different types of fruit fly to study. The three species of fruit fly were *Ceratitis capitata*, *Dacus dorsalis* and *Dacus oleae*.

What do these names suggest about the evolutionary relationships between these fruit fly species? Explain your answer.

[3 marks]

### Question 2a

Viruses are not included in the three-domain classification system.

Explain why.

[1 mark]

### Question 2b

Discuss whether viruses should or should not be classed as living organisms.

[5 marks]

**Question 2c**

State the two main features that are used to classify viruses.

**[2 marks]**