

1. Why are viruses considered to be non-living? **[3 marks]**
2. Explain the relationship between a virus's dormant period in a cell and the appearance of cold sores. **[3 marks]**
3. Distinguish between the following terms:
 - a) Zygote and Spore **[2 marks]**
 - b) Gametophyte and Sporophyte **[2 marks]**
4. Provide three pieces of evidence that mitochondria and chloroplasts originated by endosymbiosis. **[3 marks]**

5. List two similarities and two differences that fungi have with plants **[4 marks]**

6. List two features shared by plants and charophytes. **[3 marks]**

7. Explain how the following adaptations enhanced the success of land plants.

a) Vascular Tissue **[2 marks]**

b) Animal Pollination **[2 marks]**

c) Mycorrhizia **[2 marks]**

8. Consider the sporophytes and gametophytes of mosses and ferns:

a) In which group does the sporophyte become independent and photosynthetic?
[1 mark]

b) Which forms require liquid water in order to reproduce? [1 mark]

c) Which are able to spread farther, their spores or their gametes? Explain. [3 marks]

9. What distinguishes animals from other multicellular eukaryotes such as plants and fungi? [2 marks]

10. Complete the following table and place the following terms in the correct columns.
[15 marks]

Bilateral symmetry
Asymmetrical

Nerves Present
Nerves Absent

Protostomes
Deuterostomes

Annelids	Chordates	Cnidaria	Arthropods	Porifera	Nematodes

11. Which body system does each of the three germ layers give rise to? **[3 marks]**
12. Porifera are some of the simplest animals. Their characteristics distinguish them from animals in other groups.
- a) Draw and label the body plan of sponges. **[3 marks]**
- b) Describe how sponges reproduce. **[3 marks]**
- c) Give two reasons why you would never expect to find a terrestrial species of sponges. **[2 marks]**
13. Sequence the evolution of the following chordate characteristics, from the earliest to the most recent. **[5 marks]**