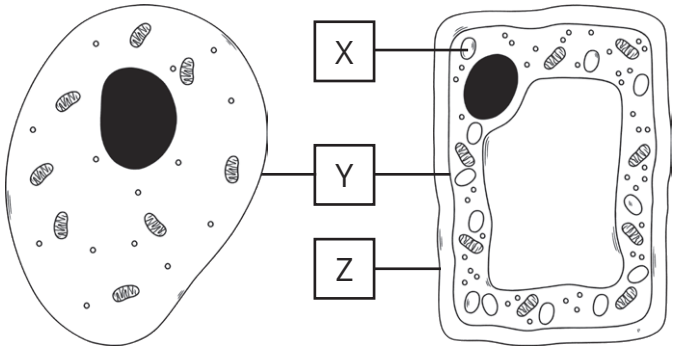
0 1 **Figure 1** shows a typical animal cell and a typical plant cell.

Three parts of the cell have been labelled X, Y and Z.

Figure 1



0 1 . 1 Draw **one** line from each letter to the name of the cell part.

[3 marks]

Letter	Cell Part
X	cell membrane
Y	cell wall
Z	chloroplast
	cytoplasm

0 1 . 2 Both animal cells and plant cells contain ribosomes and mitochondria.

Complete the sentences. Choose answers from the box.

DNA	energy	photosynthesis
protein synthesis	respiration	food

[3 marks]

Ribosomes are the site of _____.

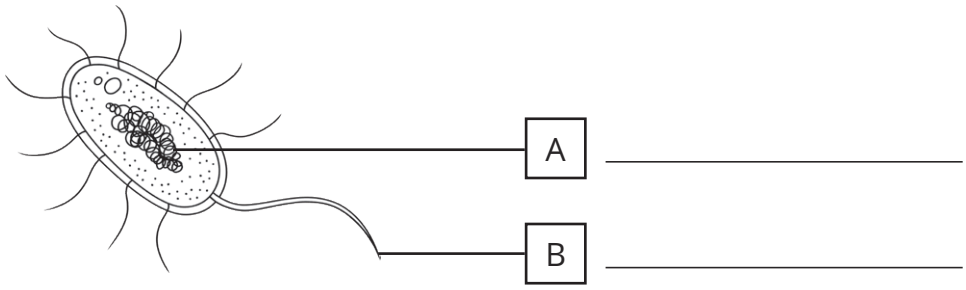
Mitochondria are the site of _____,

which releases _____ for the cell.

6

0 2 **Figure 2** shows a prokaryotic cell.

Figure 2



0 2 . 1 Complete **Figure 2** by labelling structures **A** and **B.**

Choose answers from the box.

DNA loop	flagellum	villus
nucleus		plasmid

[2 marks]

0 2 . 2 Give the function of structure **B.**

[1 mark]

0 2 . 3 Give one similarity and one difference between prokaryotic cells and plant cells.

[1 mark]

Similarity

[1 mark]

Difference

5

0 3 Animal cells and plant cells both have a nucleus.

0 3 . 1 What is the function of the nucleus in animal and plant cells?

[2 marks]

0 3 . 2 Explain the ways in which animal cells and plant cells are different.

[6 marks]

8