

(c) Suggest why neither meiosis nor mitosis take place in prokaryotic organisms.

(2)

(d) The table below shows some features of prokaryotic cells and eukaryotic cells.

For each feature, put **one** cross  in the appropriate box, in each row, to show whether the feature is found in prokaryotic cells and eukaryotic cells, prokaryotic cells only, eukaryotic cells only or not found in either.

(2)

Feature	Prokaryotic cells and eukaryotic cells	Prokaryotic cells only	Eukaryotic cells only	Not found in either prokaryotic cells or eukaryotic cells
cell membrane	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ribosomes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(e) The Golgi apparatus is found in eukaryotic cells only.

In the space below, draw and label a diagram to show the structure of the Golgi apparatus.

(3)

(Total for Question 1 = 10 marks)