

(b) In G_2 of the cell cycle, centrioles move to the poles of the cell.

Describe the structure of centrioles.

(2)

(c) (i) The photographs below show the appearance of a cell during different stages of mitosis.



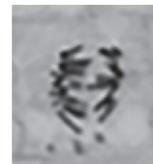
P



Q



R



S

Use the letters to give the sequence of these stages of mitosis.

(1)

(ii) Explain why these stages of mitosis would **not** be seen in a prokaryotic cell.

(2)