

7 DNA is a polymer made from monomers called nucleotides.

(a) Describe how nucleotides join together to form DNA.

(2)

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(b) Different theories for DNA replication have been suggested. Figure 1 illustrates two of these theories.

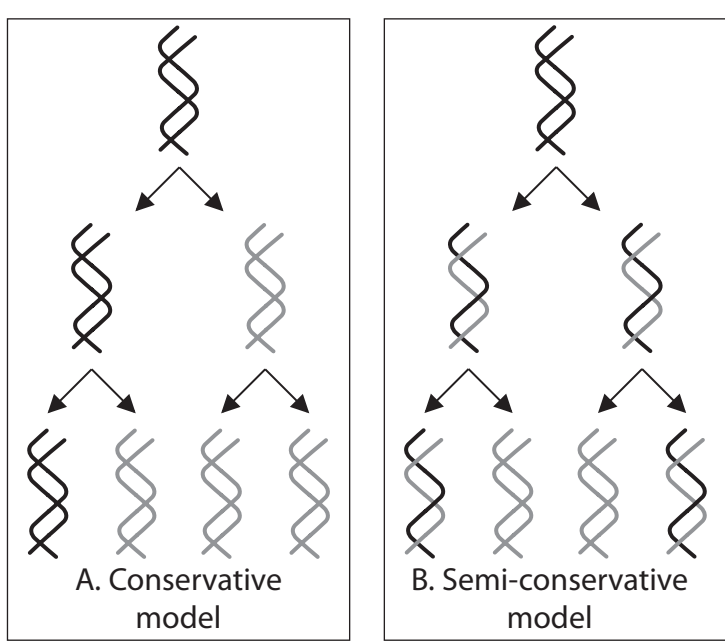


Figure 1

Meselson and Stahl carried out experiments to test these theories for DNA replication.

Figure 2 shows the results from one of their experiments.

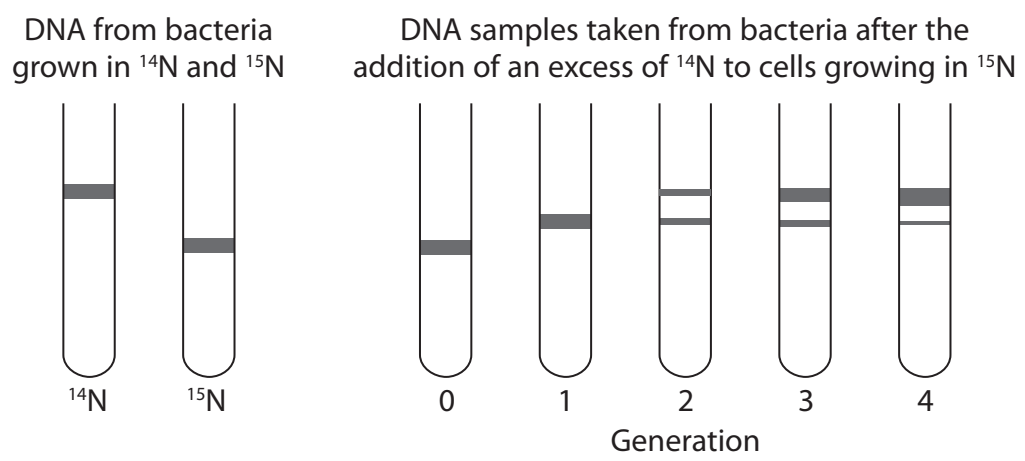


Figure 2



Analyse the data to explain why Meselson and Stahl accepted one of the models for DNA replication and rejected the other.

(4)

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