

Science

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(Chapter 5)(The Fundamental Unit of Life)(Intext Questions)

Class - 9

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Question 1:

Fill in the gaps in the following table illustrating differences between prokaryotic and eukaryotic cells.

Prokaryotic Cell	Eukaryotic Cell
1. Size : generally small (1-10 μm) $1 \mu\text{m} = 10^{-6} \text{ m}$	1. Size: generally large (5-100 μm)
2. Nuclear region: _____ _____ and known as__	2. Nuclear region: well defined and surrounded by a nuclear membrane
3. Chromosome: single	3. More than one chromosome
4. Membrane-bound cell organelles absent	4. _____ _____ _____

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Answer 1:

Prokaryotic Cell	Eukaryotic Cell
1. Size : generally small (1-10 μm) $1 \mu\text{m} = 10^{-6} \text{ m}$	1. Size: generally large (5-100 μm)
2. Nuclear region: <u>Poorly defined because of absence of nuclear membrane</u> and known as <u>Nucleoid</u>	2. Nuclear region: well defined and surrounded by a nuclear membrane
3. Chromosome: single	3. More than one chromosome
4. Membrane-bound cell organelles absent	4. <u>Membrane - bound cell organelles such as Mitochondria, plastids, etc., are present</u>

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