

APOLLO

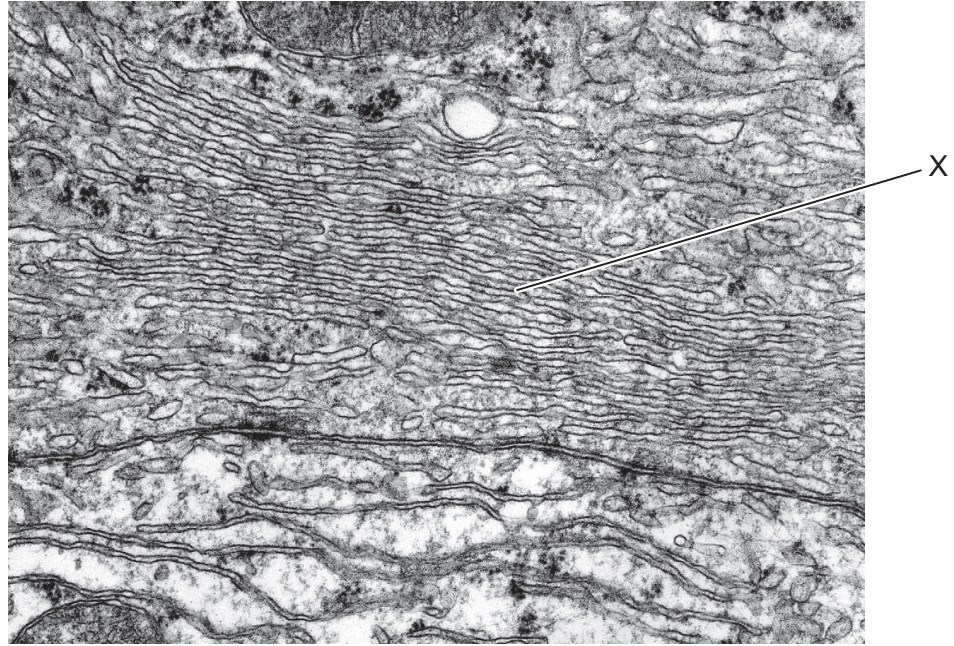
Organelles and compartmentalization SL

Biology

First assessment 2025

3 questions | questions

8. The electron micrograph shows part of a eukaryotic cell.



What is the organelle labelled X?

- A. Mitochondrion
- B. Smooth endoplasmic reticulum
- C. Lysosome
- D. Nucleus

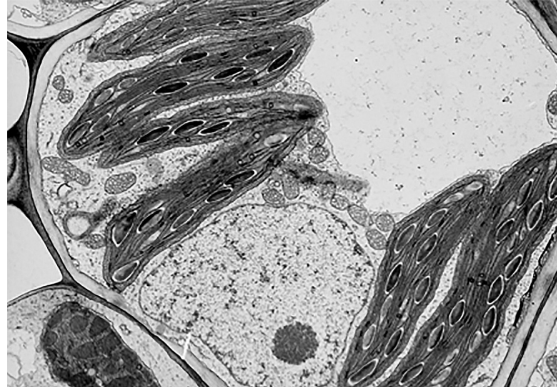
10. Which of the following is considered a cell organelle?

- A. Cell wall
- B. Lysosome
- C. Cytoskeleton
- D. Cytoplasm

Section A

Answer **all** questions. Answers must be written within the answer boxes provided.

2. The cytoplasm in eukaryotic cells is compartmentalized into membrane-bound organelles, as seen in this electron micrograph of a plant cell.



- (a) State **two** membrane-bound organelles that are common to both plant and animal cells. [2]

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- (b) (i) State **one** organelle that is found in a plant cell but not in an animal cell. [1]

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- (ii) State **one** organelle that is common to prokaryotic and eukaryotic cells. [1]

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Turn over