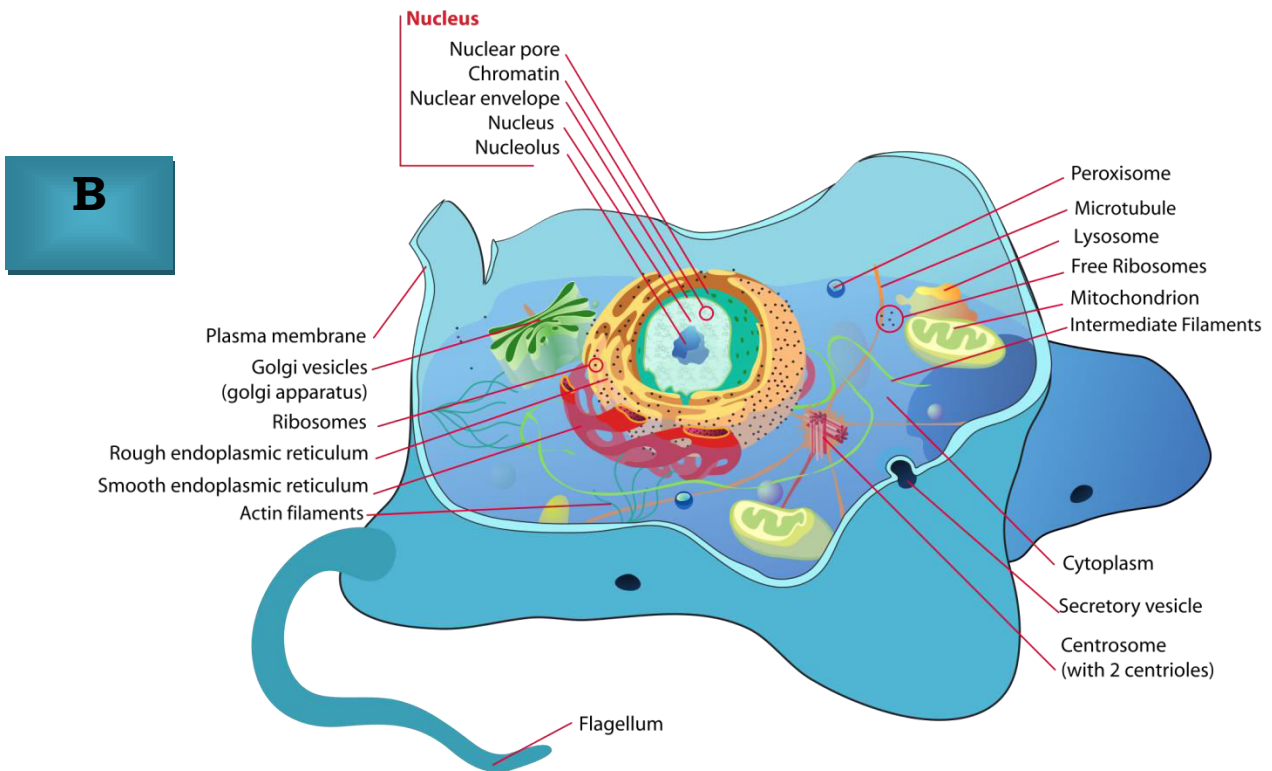
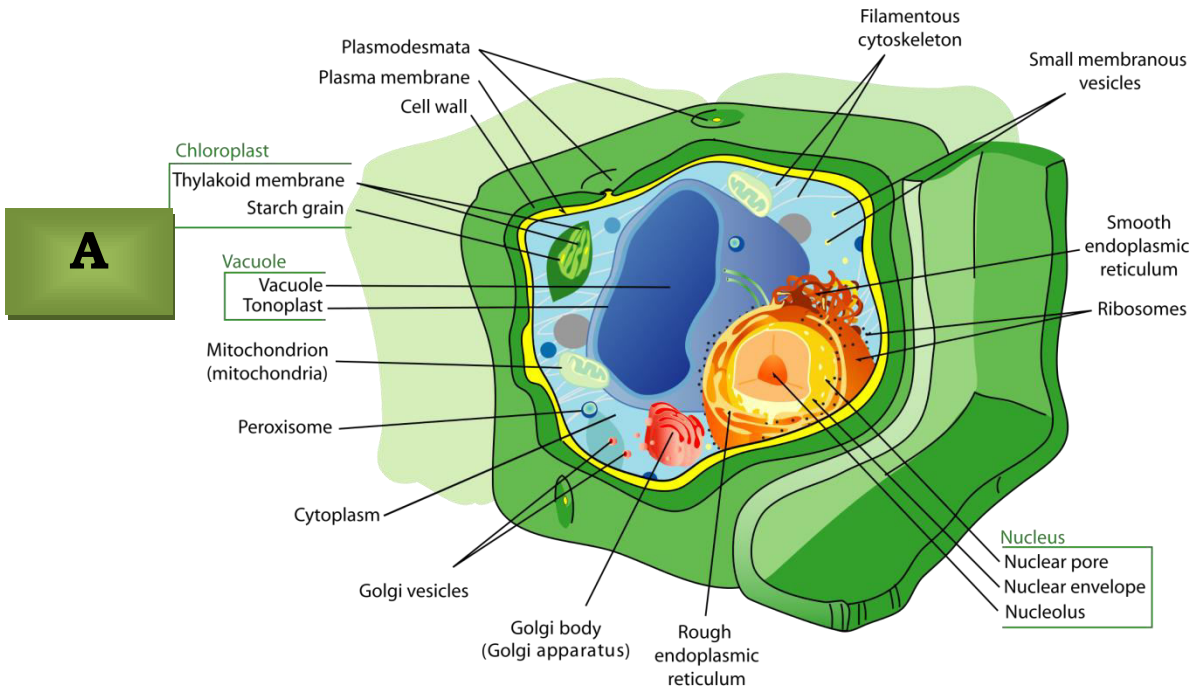
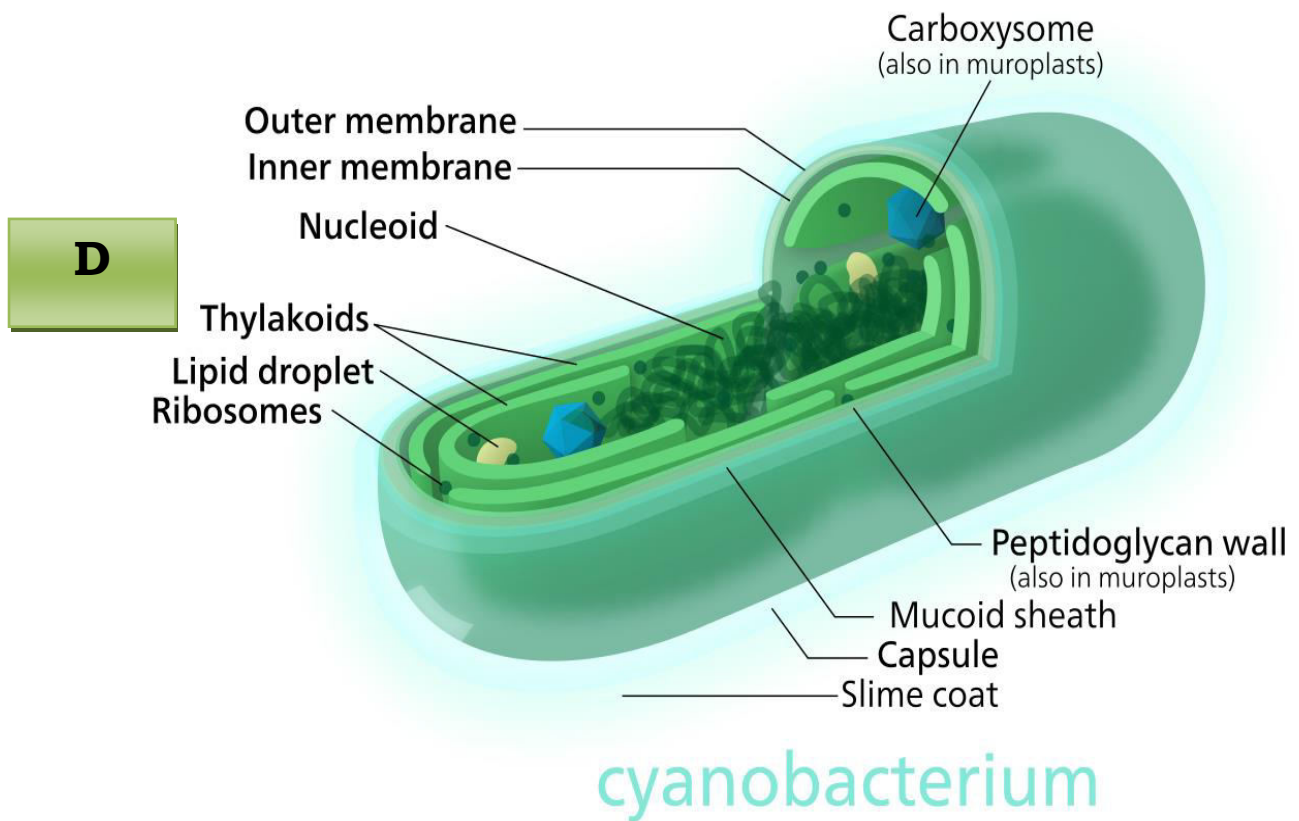
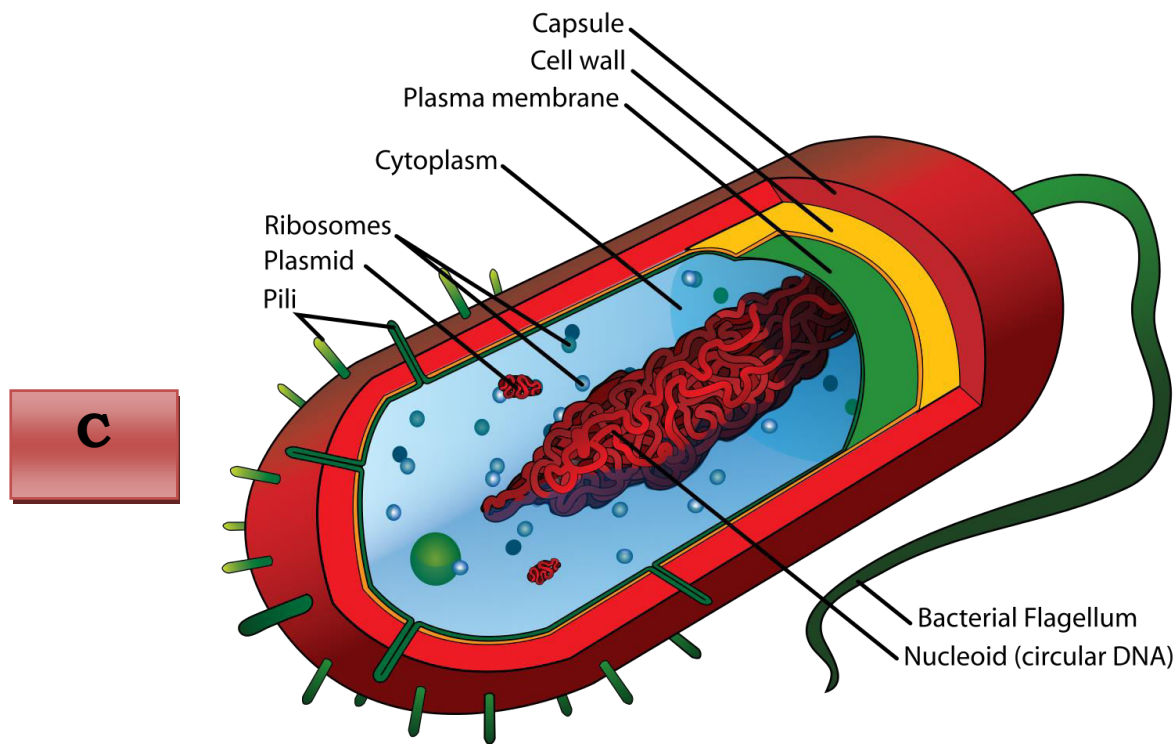


QUIZ- PROKARYOTIC, EUKARYOTIC, PLANT AND ANIMAL CELLS

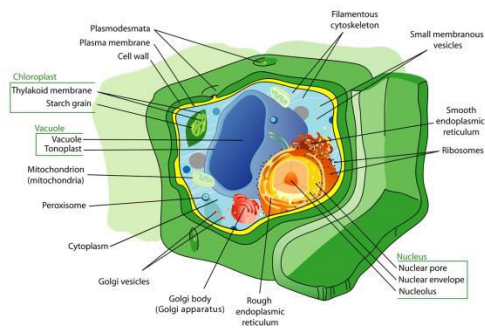




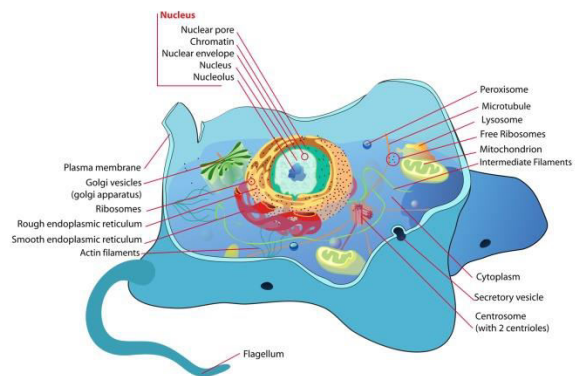
Observe the four figures A, B, C and D for the details and identify which one is an eukaryotic plant cell, an eukaryotic animal cell, a prokaryotic cell (autotroph) and a prokaryotic cell (heterotrophy). Fill the correct words into the box below.

A.
B.
C.
D.

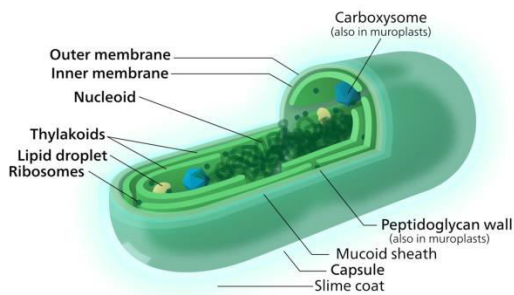
Answers:



Eukaryotic Plant Cell

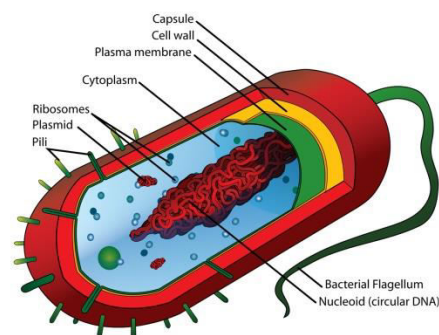


Eukaryotic Animal Cell



cyanobacterium

Prokaryotic (Autotroph) Cell



Prokaryotic (Heterotroph) Cell

Explanation:

Photograph A: Eukaryotic plant cell - Cell wall, well defined nucleus, large vacuole and chloroplast present.

Photograph B: Eukaryotic animal cell - Cell wall, chloroplast and large vacuole absent. Contents of the cell are bounded by plasma membrane. Well defined nucleus and mitochondria present.

Photograph C: Prokaryotic autotroph - Cell wall present, well defined nucleus and double membrane bound organelles absent. Nucleoid (= nucleus, which is not well defined) and chromophores (= plastid which is not well defined) are present.

Photograph D: Prokaryotic heterotroph - Cell wall present, well defined nucleus and double membrane bound organelles absent. Nucleoid and mesosomes (=Mitochondria) are present. Chromophore absent.

Note for the teacher: Teacher can prepare sets of photographs/ pictures/ specimens of members (plants/animals) belonging to different groups and ask the students to distinguish.

Picture sources: https://upload.wikimedia.org/wikipedia/commons/thumb/d/d8/Plant_cell_structure-en.svg/2000px-Plant_cell_structure-en.svg.png
https://upload.wikimedia.org/wikipedia/commons/thumb/4/48/Animal_cell_structure_en.svg/2000px-Animal_cell_structure_en.svg.png
https://upload.wikimedia.org/wikipedia/commons/thumb/5/5a/Average_prokaryote_cell-_en.svg/1258px-Average_prokaryote_cell-_en.svg.png
https://upload.wikimedia.org/wikipedia/commons/thumb/9/92/Chloroplast-cyanobacterium_comparison.svg/2000px-Chloroplast-cyanobacterium_comparison.svg.png