

19. Which organelles must be present within a cell of a geranium leaf for respiration and photosynthesis to occur?
- cell wall and lysosome.
  - centrosome and nucleus.
  - mitochondrion and chloroplast.
  - endoplasmic reticulum and ribosome.
20. What would most likely happen if the ribosomes in a cell were not functioning?
- The cell would undergo uncontrolled mitotic cell division.
  - The synthesis of enzymes would stop.
  - The cell would produce antibodies.
  - The rate of transport of glucoses in the cytoplasm would increase.
21. Which cell organelle is composed of a series of channels throughout the cytoplasm that functions in the transport of molecules?
- lysosome.
  - chloroplast.
  - cell wall.
  - endoplasmic reticulum.
22. Microscopic examination of an animal cell reveals the presence of a plasma membrane but no cell wall. Which additional structures would normally be present within this cell?
- starch grains.
  - centrioles.
  - chloroplasts.
  - large vacuoles.
23. Which organelle is correctly paired with its function?
- nucleus - provides carbohydrates for fermentation
  - chloroplast - serve as a site for photosynthesis.
  - centriole - synthesizes digestive enzymes.
  - lysosome - packages cellular products.
24. A structure that performs a specialized function within a cell is known as
- a tissue.
  - an organelle.
  - an organ.
  - a system.
25. Which structure directly controls the transport of materials in and out of the cell?
- cell wall
  - nuclear membrane.
  - cytoplasm.
  - plasma membrane.
26. The double membrane surrounding the nucleus is called the:
- nucleolus
  - nucleoplasm
  - nuclear wall
  - nuclear envelope.
27. Which structure is found in plant cells, but not in animal cells?
- nucleus.
  - ribosome.
  - cell wall.
  - mitochondrion.
28. The structure of the cell that prepares and packages proteins for use within the cell or send outside the cell.
- choroplast.
  - Vacuoles.
  - nucleus.
  - golgi complex.
29. Leucoplasts are plastids that store mainly
- water.
  - protein.
  - starch.
  - lipids.
30. Photosynthesis occurs in this organelle.
- chloroplast.
  - vacuoles.
  - mitochondria.
  - ribosomes.
31. This structure stores water, wastes and food.
- chloroplast
  - endoplasmic reticulum .
  - mitochondria
  - vacoules.
32. This organelles produces proteins.
- ribosomes.
  - endoplasmic reticulum.
  - chloroplasts.
  - vacoules.
33. The \_\_\_\_\_ is the control center for all of the activity of the cell?
- ribosome.
  - chloroplasts.
  - nucleus.
  - proteins.
34. Cell walls of multicellular plants are composed of
- cellulose.
  - pectin.
  - chitin.
  - vacuoles.
35. The term least closely related to the others is
- cytoskeleton.
  - microfilament.
  - microtubule.
  - cell juncture.