

Multiple choice transition questions summer 2023

Using your key word cards and the pdf poster to help.

Answer all the questions below in the boxes provided.

1. What are centrioles involved in?

- A lysosome formation
- B intracellular digestion
- C ribosome formation
- D cell division

Your answer

2. Which one of the following is responsible for the destruction of damaged organelles?

- A Golgi apparatus
- B cytoskeleton
- C smooth ER
- D lysosome

Your answer

3. Which of the following is concerned with the synthesis and transport of lipids and steroids in the cell?

- A rough ER
- B smooth ER
- C Golgi apparatus
- D lysosome

Your answer

4. A prokaryotic cell can be distinguished from a eukaryotic cell.  
Which of the options, **A – D**, would only be found in a eukaryotic cell?

- A a nucleus
- B a cell surface membrane
- C ribosomes
- D DNA

Your answer

5. Which base is **not** found in RNA?

- A adenine
- B cytosine
- C thymine
- D uracil

Your answer

6. Which of the following options, **A – D**, are the pyrimidine bases found in DNA?

- A uracil and thymine
- B thymine and cytosine
- C adenine and thymine
- D cytosine and uracil

Your answer

7. Three of the bases found in nucleic acids are pyrimidines and two are purines. Which of the following is correct?

	Pyrimidines	Purines
<b>A</b>	adenine and thymine	cytosine and guanine
<b>B</b>	adenine and cytosine	thymine and guanine
<b>C</b>	uracil and thymine	adenine and guanine
<b>D</b>	cytosine and uracil	thymine and cytosine

Your answer

8. A nucleotide consists of...
- a. A sugar, a base and a phosphate
  - b. A sugar and a phosphate
  - c. Paired bases
  - d. A sugar, a base and three phosphates

Your answer

9. The sugar in RNA is \_\_\_\_\_, the sugar in DNA is \_\_\_\_\_
- a. deoxyribose, ribose
  - b. ribose, deoxyribose
  - c. ribose, phosphate
  - d. ribose, uracil

Your answer

10. Which of the following correctly matches an organelle with its function?

- a. mitochondrion . . . photosynthesis
- b. nucleus . . . cellular respiration
- c. ribosome . . . manufacture of lipids
- d. lysosome . . . movement
- e. central vacuole . . . storage

Your answer

11. Of the following organelles, which group is involved in manufacturing substances needed by the cell?

- a. lysosome, vacuole, ribosome
- b. ribosome, rough ER, smooth ER
- c. vacuole, rough ER, smooth ER
- d. smooth ER, ribosome, vacuole
- e. rough ER, lysosome, vacuole

Your answer

12. Cells that do NOT produce cell walls are.....

- a. animal cells.
- b. plant cells.
- c. bacteria.
- d. prokaryotic cells.
- e. All of these make cell walls

Your answer

13. Lysosomes are produced by the.....

- a. vacuoles.
- b. nucleus.
- c. mitochondria.
- d. Golgi apparatus
- e. ribosomes.

Your answer

14. The plant cell's central vacuole.....

- a. provides the plant cell with support.
- b. stores nutrients and cellular waste products.
- c. is a reservoir for water.
- d. occupies a large area of the cell
- e. All choices are correct

Your answer