

## 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
A	adenine and thymine	cytosine and guanine
B	adenine and cytosine	thymine and guanine
C	uracil and thymine	adenine and guanine
D	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

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

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

Your answer

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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

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