

1. Which is an example of an organism with prokaryotic cells ?
 - a. athlete's foot fungus
 - b. butterfly
 - c. E. coli
 - d. spruce tree
2. Prokaryotic cells differ from eukaryotic cells in that prokaryotic cells
 - a. are larger
 - b. have a more complex internal structure
 - c. do not possess a nucleus
 - d. possess Golgi bodies
3. The term "karyon" means
 - a. before
 - b. nucleus
 - c. true
 - d. cell
4. The most abundant cells on Earth are
 - a. eukaryotes
 - b. prokaryotes
5. The largest organelle in the cell is the
 - a. endoplasmic reticulum
 - b. golgi apparatus
 - c. nucleus
 - d. ribosome
6. Most organelles are surrounded by a membrane i.e., they are "membrane bound". This organelle is NOT surrounded by a membrane
 - a. endoplasmic reticulum
 - b. golgi apparatus
 - c. nucleus
 - d. ribosome
7. Materials made inside this organelle are kept separate from the rest of the cell so that they do not cause it any harm
 - a. endoplasmic reticulum
 - b. golgi apparatus
 - c. nucleus
 - d. ribosome
8. DNA in the uncoiled state is called
 - a. chromosomes
 - b. chromatin
 - c. genes
 - d. chromatids
9. Built in the nucleus, this organelle is used to build the proteins the body needs
 - a. endoplasmic reticulum
 - b. golgi apparatus
 - c. nucleolus
 - d. ribosome
10. Proteins are activated and packaged in the
 - a. endoplasmic reticulum
 - b. golgi apparatus
 - c. nucleus
 - d. ribosome
11. Enzymes embedded in this organelle process molecules such as lipids.
 - a. smooth endoplasmic reticulum
 - b. golgi apparatus
 - c. nucleolus
 - d. rough endoplasmic reticulum
12. Which is a form of energy that can be used throughout the cell ?
 - a. ATP
 - b. glucose
 - c. ADD
 - d. fructose
13. These organelles could be considered the recycling centres of the cell
 - a. cytoskeleton
 - b. lysosomes
 - c. mitochondria
 - d. peroxisomes

14. Which organelles contain their own ribosomes and DNA, and duplicate in much the same way as a bacterium might ?
- cytoskeleton
 - lysosomes
 - mitochondria
 - peroxisomes
15. Alcohol, when ingested, is a toxin. One of the jobs of these organelles is to break it down before it causes harm
- cytoskeleton
 - lysosomes
 - mitochondria
 - peroxisomes
16. Which is a function of the cytoskeleton ?
- organization of organelles within the cytoplasm
 - give the cell shape
 - allow movement of cell structures
 - both a and b
 - all of the above
17. These rod-like tubes act as tracks along which organelles can move
- cytoskeleton
 - centrosome
 - microtubules
 - plastids
18. Centrioles are
- found only in animal cells
 - important in cell division
 - involved in the formation of cilia
 - both a and c
 - all of the above
19. In humans, one important function of cilia would be
- allowing cell division to take place
 - assistance in the movement of organelles within the cell
 - movement of foreign particles out of the lungs
 - movement of sperm through the reproductive system
20. In humans, one important function of flagella would be
- allowing cell division to take place
 - assistance in the movement of organelles within the cell
 - movement of foreign particles out of the lungs
 - movement of sperm through the reproductive system
21. The cell membrane has some control over which materials pass through it
- true
 - false
22. The cell wall has some control over which materials pass through it
- true
 - false
23. Cell walls are present in
- animal cells
 - some eukaryotic cells
 - fungi and plant cells
 - b and c only
 - all of the above
24. The function of the central vacuole in a plant cell includes
- storage
 - support
 - energy production
 - a and b only
 - all of the above
25. Plastids are similar to mitochondria in that they
- contain their own DNA and ribosomes
 - have the ability to perform photosynthesis
 - develop pigments when exposed to light
 - collect energy
 - act as storage containers for starches, lipids and proteins
26. Since prokaryotes do not have a membrane-bound nucleus, their DNA is found in a
- single loop of double stranded DNA - the nucleoid
 - circular DNA molecule called a plasmid
 - mobile DNA molecule - the nucleolite
 - either a or b
 - all of the above
27. Even though they do not possess a membrane-bound nucleus prokaryotes are, in some ways, more efficient and widespread than eukaryotes
- true
 - false