

4. lysosome
5. Golgi body
6. mitochondrion
7. nucleolus
8. ribosomes
9. vacuole
10. nuclear pore

6. Distinguish between the following pairs of terms:

a) magnification and resolution

Answer:

Magnification is the number of times larger an image is compared with the real size of the object. Resolution is the ability to distinguish between two separate points. The greater the resolution, the greater the detail that can be seen.

b) light microscope and electron microscope

Answer:

Light microscope uses light as its source of radiation while the electron microscope uses electrons as its source of radiation.

c) nucleus and nucleolus

Answer:

Both are organelles found in eukaryotic cells. However, the nucleolus is located inside nucleus. The nucleus controls cell activity while the nucleolus makes ribosome. The nucleus is surrounded by envelope while no membrane surrounds the nucleolus.

d) chromatin and chromosome

Answer: