



Answer the following question:-

1- Write the scientific term for each of the following : (10 marks)

- a- A type of protein molecules which DNA coiled around it .
- b- Fluid-like substance presence between cell membrane and nucleus.
- c- Network of membranous canaliculi, its presence increases in hepatic cells.
- d- Network of membranous canaliculi, its presence increases in cells of stomach lining.
- e- Genetic traits are transferred through them from generation to another by reproduction.

2- Choose the right answer .(10 marks)

- a-is structure in the nucleus and responsible for synthesis of ribosomes
(ribosomes – DNA – nucleolus – lysosomes)
- b-.....non membranous organelles in the cell .
(endoplasmic reticulum - golgi body – lysosomes – ribosomes)
- c- All of the following are membranous organelles except
(endoplasmic reticulum – mitochondria - - golgi body – centrosome)
- d- is not present in cells of plants, algae and most fungi
(ribosomes – plastids – mitochondria – centrosome)
- e- Mitochondria contain.....
(digestive enzymes – cell secretions – cell wastes – respiratory enzymes)

3- Complete the following statements correctly (10 marks)

- a- involves the reduction of chromosomes into haploid sets in the resulting gametes.
- b- Spermatogenesis includes three successive periods..... , and
- c- In some animals, eggs can be stimulated to develop without fertilization by the process known as

With best wishes

Dr. Hayam Ibrahim Elshaarawy



Answer the following question:-

Answer Q 1- Write the scientific term for each of the following : (10 marks)

- a- Histones
- b - Cytoplasm
- c- Smooth endoplasmic reticulum.
- d-Rough endoplasmic reticulum .
- e-Genes

Answer Q 2- Choose the right answer .(10 marks)

- a- nucleolus
- b- ribosomes
- c-centrosome
- d-centrosome
- e- respiratory enzymes

Answer Q 3- Complete the following statements correctly (10 marks)

- a- gametogenesis.
- b- multiplication, growth and maturation
- c- parthinogenesis

With best wishes

Dr. Hayam Ibrahim Elshaarawy