

Please answer the following questions, illustrate your answer with diagram if possible.

The first question: (٥ marks)

Enumerate the cytoplasmic organelles sharing in protein synthesis and describe briefly one of them.

The second question: (٥ marks)

Choose the correct answer:

١ - SER is numerous in the:

- A- Protein synthesis cells.**
- B- Steroid secreting cells.**
- C- Phagocytic cells.**
- D- Energy producing cells.**

٢ - The simple squamous epithelium lines:

- A- Alveoli**
- B- Arteries and veins**
- C- Lymphatic vessels**
- D- All above**

٣ - The origin of macrophage is:

- A- Basophil**
- B- B- lymphocyte**
- C- Monocyte**
- D- Fibroblast**

٤ - White fibro cartilage contains thick bundles of:

- A- Reticular fibers**
- B- Collagen fibers**
- C- Elastic fibers**
- D- A&C**

٥ - Z-line is formed mainly of protein called:

- A- α -actinin
- B- myosin
- C- actin
- D- B&C

The third question: (٩ marks)

With drawing only illustrate the histological structure of two only of the following:

- ١ - Hyaline cartilage
- ٢ - Mitochondria
- ٣ - Smooth muscle

The fourth question: (٥ marks)

Complete:

- ١ - ٢ry lysosome formed as a result of fusion between.....and.....
- ٢ - The apical border of absorptive columnar cells having.....
- ٣ - The plasma cells synthesis and secretes.....
- ٤ - Osteoclast in bone act as.....
- ٥ - The collagen fibers is synthesized fromcells in connective tissue

The fifth question: (٥ marks):

Mention the differences only between two only of the following:

- ١ - Serous and mucus gland
- ٢ - Skeletal and cardiac muscles
- ٣ - Spongy and compact bone

مع اخلص الامنيات بالتوفيق والنجاح
ا.د/ منى عبد الفتاح على