

العلوم البيولوجية والجينية والبيولوجيا/ الحيوان/ رابعة
فسيولوجي (405 ح)

Part (1): Practical Exam
90Marks:

الإمتحان في صفحتين

Answer the Following Questions:

Question One:

(45 mark)

- a- Mention the types of stimulation. What is the best type of them?
b- Describe one of the stimulators.

(25 mark)

(20 mark)

Question Two:

(45 mark)

- a- What are the electrophysiological properties of the contractive myocardium?
b- Mention two of the cases of ECG abnormalities.

(25mark)

(20 mark)

Part (2): Oral Exam

Marks:20

Answer the Following Questions:

Question One: Complete: (4 mark)

The fluid in the body is distributed approximately as follows:

- (1) Volume of total body water is _____ liters (L).
(2) The intracellular fluid volume is _____ L.
(3) The interstitial fluid volume is _____ L.
(4) Extracellular fluid volume is _____ L.

Question Two: Complete: (8 mark)

The pressures at the arterial end of a capillary that cause a filtration pressure (of 13 mm Hg) are:

- (1) Capillary (fluid) pressure is about _____ mm Hg.
(2) Colloid osmotic pressure in the interstitial fluid is about _____ mm Hg.
(3) Fluid pressure in the interstitial fluid is about _____ mm Hg.
(4) The colloid osmotic pressure of the plasma proteins is about _____ mm Hg.

Question Three: Complete: (8 mark)

The pressures at a renal corpuscle that cause a glomerular filtration (of 10 mm Hg) are:

- (1) The glomerular blood (fluid) pressure is normally _____ mm Hg.

- (2) The colloid pressure in the glomerulus is normally _____mm Hg.
- (3) The fluid pressure in Bowman's capsule is about _____mm Hg.
- (4) The colloid osmotic pressure in Bowman's capsule is essentially _____mm Hg.
-

Best Wishes

Dr. El-Saeid El-Sherbiny