

Course No: PHRM 2213  
Course Title: Anatomy & Physiology II  
Date: 21/10/2017  
No. of Questions: (6)  
Time: 1hour  
Using Calculator (No)

University of Palestine



First Exam  
2017/2018  
Total Grade: 15 Marks

Instructors Name: Dr. Amjad El-Shanti  
Student No: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: \_\_\_\_\_  
Dep./Specialist: \_\_\_\_\_  
Using Dictionary (No)

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**Question one: Put the sign (✓) against the right sentences and the sign (X) against the wrong sentences:** (2.5 Marks)

- 1- Parathormone causes bone cells to release calcium and phosphorous into the blood ( ).
- 2- Growth hormone increases protein synthesis and the breakdown of fats and carbohydrates ( ).
- 3- The parietal pericardium is also known as the epicardium of the heart wall ( ).
- 4- The repolarization of the atria is in the T wave of an ECG ( ).
- 5- Vitamin C is needed to produce prothrombin ( ).

**Question Two: Select and circle the correct answer from the following alternatives for each sentence:**

(2.5 Marks)

- 1- Gap junctions in the intercalated discs of cardiac muscle cells allow the rapid passage of what?
  - a) Water.
  - b) Calcium.
  - c) Action potentials.
  - d) Oxygen.
- 2- The Frank-Starling Law states:
  - a) The greater the heart rate the higher the blood pressure.
  - b) The amount of stretch the ventricle is subject to affects the force of contraction.
  - c) The amount of afterload affects the force of ventricular contraction
  - d) Cardiac output equals stroke volume times heart rate.
- 3- Which of the following is NOT a defense function of the blood?:
  - a) Blood clotting.
  - b) Removes dead cells.
  - c) Removes pathogens.
  - d) Regulates pH.
- 4- Which valve prevents the backwards flow of blood in to the left atrium?
  - a) Aortic valve.
  - b) Pulmonary valve.
  - c) Mitral valve.
  - d) Tricuspid valve.
- 5- The cells of the cardiac conduction system have the ability to create their own action potentials, this is known as:
  - a) Spontaneity.
  - b) Reflexivity.
  - c) Mechanicity.
  - d) Automaticity.

- 6- Hemorrhagic bleeding disorders may result from a deficiency of vitamin::
  - a) B12.
  - b) D.
  - c) E.
  - d) K.
  
- 7- Hormones can be put into two categories based on chemical makeup. What are these categories?
  - a) Glands and cortex.
  - b) Proteins and carbohydrates.
  - c) Peptides (proteins) and steroids.
  - d) Endocrine and exocrine.
  
- 8- Identify the hormone(s) produced by the hypothalamus.:
  - a) Oxytocin.
  - b) Antidiuretic hormone.
  - c) Releasing and inhibiting hormones.
  - d) All of the above are all produced in the hypothalamus.
  
- 9- The antagonistic hormone to calcitonin is \_\_\_\_\_.:
  - a) Thyroxine.
  - b) Growth hormone.
  - c) Insulin.
  - d) Parathyroid hormone.
  
- 10- Which of the following is NOT true of aldosterone?
  - a) Targets kidney tubules to absorb sodium and water and to excrete potassium..
  - b) It is a mineralocorticoid.
  - c) Causes a decrease in urine volume.
  - d) It causes a decrease in blood pressure.

**Question Three: Define the following scientific terms: (1.5 Marks)**

- 1- Neurohypophysis:-----  
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- 2- Dicrotic notch:-----  
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- 3- Erythropoiesis:-----  
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**Question Four: Enumerate the following: (3 Marks)**

- 1- Plasma protein and function of each one :
  - a) -----
  - b) -----
  - c) -----

**2- Functions of Glucagon:**

- a) .....
- b) .....
- c) .....

**3- Factors that decrease contractility of heart:**

- a).....
- b).....
- c).....

**Question Five: Justify the following sentences: (2 Marks)**

1- Left side heart failure results in pulmonary edema while right side heart failure results in peripheral edema.

**Justification:**.....  
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2- Individuals with type AB blood sometimes called universal recipients.

**Justification:**.....  
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**Question Six: Write short account about the following: (3.5 Marks)**

1- Negative feedback control of hormonal secretions (**Give examples**):

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2- How to calculate the cardiac output and cardiac reserve?

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**End of Questions**  
*Good Luck*