

Course No: PHSC 1308  
Course Title: Anatomy & Physiology 1  
Date: 00/3/2015  
No. of Questions: (7)  
Time: 1hour  
Using Calculator (No)

University of Palestine  
  
Midterm Exam  
Second term 2014/2015  
Total Grade: 40 Marks

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

**Question One :**

**(10 marks)**

**Put the sign (√) against the right sentences and the sign (X) against the wrong sentences:**

- 1- ( ) The controlled condition is reversed in negative feedback systems.
- 2- ( ) Mediastinum is a dome shaped muscle separates the thoracic cavity from abdomino-pelvic cavity.
- 3- ( ) in active transport , a cell uses energy to move substance across the membrane with a concentration gradient.
- 4- ( ) The uterine tube lining cells are example of ciliated simple columnar cells.
- 5- ( ) During interphase, the chromatin fibers change into chromosomes.
- 6- ( ) Connective tissue is highly vascular except the cartilage and tendon.
- 7- ( ) Eccrine sweat glands are found in armpit and pubic regions and their secretions are viscous.
- 8- ( ) The metacarpals are example of irregular bones.
- 9- ( ) Skin regeneration subsides if stratum basale and its stem cells are destroyed.
- 10- ( ) Calcitonin inhibits the activity of osteoblasts which promotes bone formation.

**Question Two:**

**(5 marks)**

**Write the scientific term against the following phrases:**

- 1- ( ) Subcellular structures having characteristic shapes and specific functions.
- 2- ( ) Membranes that line a body cavity and open directly to exterior.
- 3- ( ) Cells that found in stratum spinosum of epidermis and immunity.
- 4- ( ) Plane that divide the body into superior and inferior.
- 5- ( ) A condition of balance in the body's internal environment.

**Question Three:**

**(5 marks)**

**Select the correct answer from the following alternatives for each sentence:**

- 1- Which of the following generates the output commands in feedback system:
  - a) Receptor.
  - b) Control Center.
  - c) Effector.
  - d) Controlled Condition.
- 2- Short, hair like projects from the cell surface, move fluids a long cell surface:
  - a) Cilia.
  - b) Flagella.
  - c) Microvilli.
  - d) Microtubules.
- 3- Ions and waste chemicals travel from one cell to another through:
  - a) Cadherins.
  - b) Integrin.
  - c) Connexons.
  - d) Laminin.

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- 4- The cartilage at symphysis pubis is an example of :
- a) Hyaline cartilage.
  - b) Elastic cartilage.
  - c) Fibrous cartilage.
  - d) Mixed cartilage.

**Question Four:**

**(3 marks)**

**Justify and explain the following sentences:**

- A) The muscle and liver cells are rich of mitochondria.**

**Justification:**-----  
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- B) The stomach lining cells are not destroyed by acidic gastric juice.**

**Justification:**-----  
-----

- C) The skin plays role in regulation of body temperature.**

**Justification:**-----  
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**Question Five:**

**(4marks)**

**Define the following scientific terms:**

1- **Differentiation:**-----  
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2- **Pinocytosis:**-----  
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3- **Haploid cells:**-----  
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4- **Sarcomere:**-----  
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**Question Six:**

**(10marks)**

**Enumerate the following:**

**1-Five examples of extracellular fluid:**

- a) -----
- b) -----
- c) -----
- d) -----
- e) -----

**2- Connective tissue cells and their functions:**

- a) -----
- b) -----
- c) -----
- d) -----
- e) -----
- f) -----

**3-Factor affecting bone growth and remodeling**

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

**4-Fourv types of synarthroses and example for each type**

- a) -----
- b) -----
- c) -----
- d) -----

**5- Five steps of the skeletal muscle contraction cycle**

- a) -----
- b) -----
- c) -----
- d) -----
- e) -----

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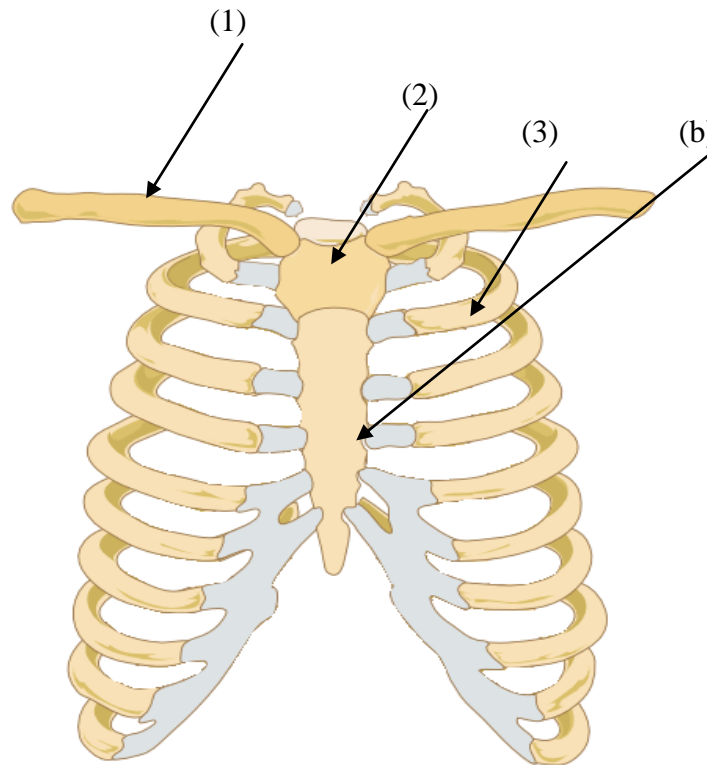
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**Question seven: (3marks)**

A) Write the name of the following labeled bones of thoracic cage:

- 1-----
- 2-----
- 3-----



B) What is the type of joint at point (b), and type of movement at this point?

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End of Questions

*Good Luck*