

Course No: PHRM 2213
Course Title: Anatomy & Physiology II
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Time: 1hour
Using Calculator (No)

University of Palestine



Second Exam
First Term 2017/2018
Total Grade: 15 Marks

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Dep./Specialist: _____
Using Dictionary (No)

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

- 1- Fenestrated capillaries are found in organs that require rapid absorption or filtration such as kidneys ().
- 2- During exercise increase the perfusion of lungs and skeletal muscles ().
- 3- Ingestion and destruction of foreign particles by Neutrophils and Macrophage is a form of non-specific resistance in human body ().
- 4- The lymph from upper right region of human body is drained into thoracic duct ().
- 5- Immunoglobulin E Prevents bacteria forming colonies on mucous membranes ().

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

(2.5 Marks)

- 1- Which of these layers in the wall of blood vessels contains smooth muscle?
 - a) tunica adventitia.
 - b) tunica intima.
 - c) tunica media.
 - d) both b and c.
- 2- Which of these vessels is LEAST affected by vasoconstriction and vasodilation?
 - a) arterioles.
 - b) elastic arteries.
 - c) muscular arteries.
 - d) small arteries.
- 3- As blood flows through a capillary, _____ causes fluid to leave the capillary; whereas _____ causes fluid to enter the capillary.
 - a) blood pressure, osmosis.
 - b) osmosis, blood pressure.
 - c) blood pressure, lymphatic pressure.
 - d) lymphatic pressure, blood pressure.
- 4- Whereas _____ mechanisms are most important for regulating mean arterial pressure on a short-term basis; _____ mechanisms are most important for regulating mean arterial pressure on a long-term basis.
 - a) chemoreceptor, hormonal.
 - b) baroreceptor, chemoreceptor
 - c) chemoreceptor, baroreceptor.
 - d) baroreceptor, hormonal.
- 5- Lymph nodes:
 - a) have one afferent and many efferent vessels.
 - b) have germinal centers where lymphocytes divide.
 - c) filter the blood.
 - d) pump lymph toward the heart.

6- In the spleen,

- a) white pulp is associated with veins..
- b) red pulp is associated with arteries.
- c) mainly lymph is filtered.
- d) worn-out erythrocytes are destroyed.

7- B cells:

- a) are stimulated by helper T cells.
- b) are produced in the thymus.
- c) cause cell lysis.
- d) all of these.

8- Natural killer cells:

- a) are a type of macrophage.
- b) exhibit no memory response.
- c) recognize cells infected by a specific virus.
- d) are produced in the thymus.

9- Antiserum is used to produce:

- a) active natural immunity.
- b) active artificial immunity.
- c) passive natural immunity.
- d) passive artificial immunity.

10- Which of the following arteries is not a branch from the aortic arch directly ?

- a) brachiocephalic artery.
- b) left common carotid artery..
- c) right common carotid artery.
- d) left subclavian artery.

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

- 1- **Active immunity:**-----

- 2- **Portal system:**-----

- 3- **Edema:**-----

Question Four: Enumerate the following: (3 Marks)

- 1- **Factors determine the blood pressure :**
 - a) -----
 - b) -----
 - c) -----
- 2- **Main functions of lymphatic system:**
 - a) -----
 - b) -----
 - c) -----

3- Types of antigenic materials in vaccination:

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

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

1- The flow of blood decreases from aorta to capillaries.

Justification:-----

2- Fever plays role in the defense against microbes .

Justification:-----

Question Six: Writ short account about the following: (3.5 Marks)

1- Mechanisms of venous return and principles of low venous return shock.

2- Structure and the ways of antibodies' function.

End of Questions
Good Luck