Course No: PHRM 1306

Course Title: Anatomy & Physiology 1

Date: • \ / \ \ \ /2016 **No. of Questions:** (6)

Time: 1hour

Using Calculator (No)

University of Palestine



Second Exam First term 2016/2017 Total Grade: 15 Marks Instructor Name: Dr. Amjad El-Shanti Student No.: ______ Student Name: _____ College Name: Pharmacy Dep./Specialist:

Using Dictionary (No)

Question One: (2.5 marks)		Question One:	(2.5 marks)
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Put the sign (V) against the right sentences and the sign (X) against the wrong	sentences
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- 1- () The most abundant mineral salt of the bone is calcium phosphate.
- 2- () Osteoclasts are the mature bone cells.
- 3- () Any bone in the human body is formed from compact and spongy bone..
- 4- () Tropomyosin is a double strand prevents actin–myosin interaction
- 5- () Tail of myosin binds to other myosin molecules.

Question Two:	(2.5 marks
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Write the scientific term against the following phrases:

- 1- () contraction without neural stimulation.
- 2- () The ongoing replacement of old bone tissue by new bone tissue.
- 3- () Long, slender, and spindle shaped muscular muscle has a single, central nucleus.
- 1- () The broken ends of the bone protrude through the skin.
- 5- () The normal tension and firmness of a muscle at rest.

O 4 777	(A = 1
Question Three:	(2.5 marks

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

- 1- The layer of connective tissue that separates the muscle tissue into small sections is called the
 - a) Endomysium.
 - b) Epiomysium.
 - c) Perimysium.
 - d) None of the above.
- 2- The segment of a myofibril that is called a sarcomere runs from ______.
 - a) One z line to the next z line.
 - b) One H zone to the next H zone.
 - c) One A band to the next A band.
 - d) One end of the muscle to opposite end.
- 3- The ______ are an invagination of the muscle cell's sarcolemma:
 - a) Sarcoplasmic reticulum.
 - b) Transverse tubules.
 - c) Cisterna.
 - d) Synaptic cleft.
- 4- Which description of muscle contraction means that all of the fibers within a muscle are fully contracted?
 - a) All-or- none law.
 - b) summation.
 - c) Tetanic.
 - d) Tone.

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D -	Muscles	tnat are	not used,	may	degenerate	or undergo	a process	ΟĪ	

- a) Atrophy
- b) Hypertrophyc) Fatigue

d) Te	etany					
Ques	tion Four:	(1.5 marks)				
Justify ar	nd explain the following sentences:					
A) Ca	alcium is necessary for muscle contraction .					
Ju 	stification:					
·	fter puberty, the height of person will not in					
Ju 	stification:					
C) Mitochondria is more prevalent in cardiac muscular cells.						
Ju 	stification:					
Questio	on Five:	(2mark)				
Define th	e following scientific terms:					
1-	Triad:					
	Motor unit:					
2-	Motor unit:					

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College Name: Pharmacy

Dep./Specialist: Using Dictionary (No)

	Question Six:	(4marks)
	te in detail in the following:	
	eps that initiate and end muscle contraction:	
2-	Factors Affecting Bone Growth and Bone Remodeling	
		5·

End of Question Good Luck