

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

UNIVERSITY EXAMINATIONS 2012/2013 ACADEMIC YEAR

FIRST YEAR FIRST TRIMESTER EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN HEALTH PROFESSION EDUCATION

COURSE CODE:

NUR 101

COURSE TITLE:

ANATOMY I

DATE: Thursday 10th January 2013 TIME: 9.00a.m.-12.00noon

INSTRUCTIONS TO CANDIDATES

- 1. Time 3hours
- 2. Write your University registration number on every sheet of paper used
- 3. Answer all questions in all the three sections
- 4. Section A comprises of Multiple Choice Questions
- 5. Section B comprises of short Answer Questions
- 6. Section C comprises of Essay Questions

SECTION A: ANSWER ALL: 20 MARKS

9. Which type of muscle cell is multinucleated?a. Cardiac

b. Smoothc. Skeletal

d. All of the Above

Choose the most correct answer for each	of the following.	Only one choice is correct.
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	and most correct answer for each of the following. Only one choice is correct.	
	(1 mark each	(
1.	The following statements is true about anatomy except	5
	a. The scientific discipline that investigates the structure of the body	
	b. Means to dissect	
	c. To cut apart and separate the parts of the body	
	d. The study of the body	
2.	Select the trait that does not characterize muscle tissue in general	
	a. Irritability	
	b. Contractility	
	c. Extensibility	
	d. Inelasticity	
3.	Individual fibers of skeletal muscle have fine sheath of connective tissue called a(n)	
	a. Epimysium	
	b. perimysium	
	c. Endomysium	
	d. Facia	
4.	Sarcomeres run from	
	a. A band to A band	
	b. Z line to Z line	
	c. H zone to H zone	
	d. I band to I band	
5.	The rough endoplasmic reticulum (RER) in the cells are because of the presence of	
	a. Ribosomes on the surface of ER	
	b. Mitochondria on the surface of ER	
	c. Voluntin on the surface of ER	
	d. Sulphur granules on the surface of ER	
6.	Cell cytoskeleton is made up of	
	a. Proteinaceous filaments	
	b. Calcium carbonate granules	
	c. Cellulose deposit	
	d. Cellulosic myofibrils	
7.	Smooth Muscle is	
	a. Voluntary and Spindle Shaped	
	b. Voluntary and Striated	
	c. Involuntary and Spindle Shaped	
	d. Involuntary and Striated	
8.	Each myosin filament is surrounded by actin filaments.	
	a. Two	
	b. Four	
	c. Six	
	d Seven	

 10. What is an example of a smooth muscle? a. Masseter (Face) b. Bladder c. Heart d. Pronator Teres (Forearm) 	
 11. The four basic tissue types are a. Epithelial, simple, stratified, skeletal b. Connective, nervous, fluid, smooth c. Muscle, nervous, simple, stratified d. Epithelial, connective, muscle, nervous 	
 12. The axial skeletal is divided into a. Skull, vertebral column, axial b. Skull, vertebral column, thoracic cage c. Skull, hyoid, thoracic cage d. Skull, vertebral column, phalanges 	
13. Match the following organelles with their function (1 mark each)	
A. Mitochondria	
B. Vacuoles C. Cilia	
D. Rough endoplasmic reticulum	
E. Smooth ER	
F. Golgi Apparatus	
G. Nucleus	
H. Nucleolus	
I. Cell membrane	
J. Lysosome	
K. Cytoplasm	
L. Peroxisome	
Protein synthesis	
maintain cell structure and intracellular climate	
intermediate area for storage and cell transport	
Movement of the cell	
Lipid synthesis and transport	
"Powerhouse" of the cell makes ATP	
Storage areas, mainly found in plant cells	
Packages and distributes cellular products	
Section B: ANSWER ALL: 40 MARKS	
1. Outline the major body landmarks of the following	
a. Abdomen	(6 mark)
b. Upper eextremities	(6 marks)
2. Describe the general characteristics associated with muscle tissue	(10mark)
3. Explain the important functions of muscle tissue	(10mark)
4. Outline the functions of skeleton	(8marks)
	(ommns)
Section C: ANSWER ALL: 40 MARKS	
1. Discuss the sliding theory of muscles	(20 marks).
2. Describe the structures of a long	