



(University of Choice)

**UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
FIRST YEAR, SECOND TRIMESTER EXAMINATIONS
FOR THE DIPLOMA
OF**

DIPLOMA OF MEDICAL BIOTECHNOLOGY/LABORATORY SCIENCES

COURSE CODE: BMD 123

COURSE TITLE: GENERAL ANATOMY

MAIN EXAMINATION

DATE: 31ST MAY 2019

TIME: 8.00 - 10.00 AM

INSTRUCTIONS TO CANDIDATES

This paper is divided into three sections; **A**, **B** and **C**, carrying respectively: Multiple Choice Questions (**MCQs**), Short Answer Questions (**SAQs**) and Long Answer Questions (**LAQs**).

ANSWER ALL QUESTIONS.

TIME: 2 HOURS

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 5 Printed Pages. Please Turn Over.

Section A

1. A structure composed of two or more tissues is termed:
 - A. organ
 - B. serous membrane
 - C. complex tissue
 - D. organ system
2. The visceral pleura:
 - A. is the membrane lining surface of the lungs
 - B. is the membrane lining the wall of the thoracic cavity
 - C. is the fluid around the lungs
 - D. is the thinnest portion of the peritoneum
3. The anatomical position is characterized by all of the following except:
 - A. palms facing posterior
 - B. thumbs pointing laterally
 - C. face pointing anteriorly
 - D. body standing upright
4. Which of the following lies fully ipsilateral to the left iliac region:
 - A. epigastric region
 - B. left hypochondriac region
 - C. right inguinal region
 - D. hypogastric region
5. The "basic unit of life" is
 - A. the atom
 - B. water
 - C. the cell
 - D. the chemical level of organization
6. A homeostatic imbalance:
 - A. must be restored by negative feedback mechanisms
 - B. is considered the cause of most diseases
 - C. is when the internal conditions of the body become more stable
 - D. only occur when positive feedback mechanisms are overwhelmed
7. Which of the following is NOT a characteristic of life:
 - A. growth
 - B. responsiveness
 - C. reproduction
 - D. organ systems

8. The sum of all chemical reactions in the body is termed:

- A. homeostasis
- B. physiology
- C. dynamic feedback
- D. metabolism

9. A vertical plane through the body dividing it into right and left is termed:

- A. sagittal
- B. lateral
- C. transverse
- D. frontal

10. Which of the following is an example of applied physiology:

- A. measuring the length of the femur on a fetus using ultrasound
- B. locating an injury to a tendon in the shoulder using CT imaging
- C. describing the process of how a toxin interferes with nerve impulse conduction
- D. identifying the types of cells found in a biopsy sample of lung tissue

11. The elbow is _____ to the wrist:

- A. distal
- B. lateral
- C. ventral
- D. proximal

12. The heart is _____ to the lungs:

- A. superior
- B. dorsal
- C. medial
- D. lateral

13. What is the function of serous membranes?

- A. to prevent fluid loss from an organ
- B. to reduce friction between internal organs
- C. to circulate blood around the organ
- D. to conserve heat within the organ

14. Histology is the study of:

- A. cells and membranes
- B. skin
- C. organs and organ systems
- D. tissues

15. Which of the following can be found in cartilage but not bone tissue:
- A. lacunae
 - B. protein fibers
 - C. blood vessels
 - D. chondroitin
16. The most common type of exocrine gland is this type:
- A. apocrine
 - B. merocrine
 - C. endocrine
 - D. holocrine
17. Epithelia that consist of more than one layer of cells is termed:
- A. striated
 - B. stratified
 - C. stipulated
 - D. intercalated
18. The matrix of connective tissue is composed of:
- A. cells, fibers and ground substance
 - B. cells and fibers
 - C. fibers and ground substance
 - D. cells and ground substance
19. Small hair-like structures on the surface of some epithelial cells are termed:
- A. cilia
 - B. glia
 - C. villi
 - D. microvilli
20. These cells are located in bone tissue:
- A. chondroblasts
 - B. osteocytes
 - C. fibroblasts
 - D. chondrocytes

Section B 60MRKS

1. Explain and illustrate the 4 body quadrants
2. Describe the cranium bone
3. Describe the muscles of the face
4. Describe any five body senses
5. Describe digestion process
6. Describe the four major tissue group

Section C 40 marks

1. Describe and illustrate the male reproduction system
2. Describe and illustrate the female reproduction system