



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
SPECIAL/SUPPLEMENTARY UNIVERSITY EXAMS**

SCHOOL OF NURSING MIDWIFERY AND PARAMEDICAL SCIENCES

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN
NURSING**

COURSE CODE: NCN 114

**COURSE TITLE: ANATOMY OF THE LOWER AND UPPER
LIMBS: HUMAN ANATOMY II**

DATE: 04/10/2022

TIME: 8AM-11AM

INSTRUCTIONS TO CANDIDATES

All questions are compulsory

DURATION: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This paper consists of 4 (four) printed pages. Please turn over.

SECTION A: Multiple choice questions (MCQs)- 20mks

Choose the most appropriate answer

1. The areas of the hand which are closer to the body are referred to as _____ and those further away are referred to as _____ respectively.
 - (a) Distal and proximal
 - (b) Dorsal and proximal
 - (c) Proximal and distal
 - (d) Palmar and distal

2. Which muscle attaches to the sternum,
 - (a) Pectoralis major
 - (b) Pectoralis minor
 - (c) Latissimus dorsi
 - (d) Serratus anterior

3. Flexible and tough band of fibrous connective tissue is known as
 - (a) tendon
 - (b) cartilage
 - (c) nerves
 - (d) ligament

4. What is an osteoblast,
 - (a) Osteoid secreting cells NOT trapped in the matrix, forming bone
 - (b) Osteoid secreting cells trapped in the matrix, forming bone
 - (c) Protein fibres that make up the bony matrix
 - (d) Osteoid secreting cells that destroy bone cells

5. The areas of the hand which are closer to the body are referred to as _____ and those further away are referred to as _____ respectively.
 - (a) Distal and proximal
 - (b) Dorsal and proximal
 - (c) Proximal and distal
 - (d) Palmar and distal

6. What is the name of the place that bone growth starts?
 - (a) First Ossification centre
 - (b) Ossification centre
 - (c) Primary ossification centre
 - (d) Initial bone maturation centre

7. are cells that tear down and remodel bone
 - (a) Macrophages
 - (b) Osteoblasts
 - (c) Osteocytes
 - (d) Osteoclasts

8. Regarding the clavicle, all are correct EXCEPT:
- (a) It is an example of the short bones.
 - (b) It is the first bone to ossify in the fetal life.
 - (c) It ossifies in membrane. d. It is the commonly fractured bone.
 - (d) It has no medullary cavity.
9. The anterior fontanelle closes at...while the posterior fontanelle closes at ...
- (a) 3-6 months and 12-18 months respectively
 - (b) 12-18 months and 3-6 months respectively
 - (c) 12 -18 months and posterior 2-3 months respectively
 - (d) 2-3 months and posterior 6 -18 months respectively
10. The landmark used when assessing the level to which the presenting part of the fetus has descended into the true pelvis is;
- (a) Iliac spines
 - (b) Ischial tuberosity
 - (c) Iliopectineal line
 - (d) Ischial spines
11. The Boundaries of the pelvic inlet is marked by;
- (a) Sacral promontory
 - (b) Iliopectineal lines
 - (c) Pubic symphysis.
 - (d) Iliac crest
12. All the muscles are supplies by femoral nerve except:
- (a) Iliacus
 - (b) Psoas major
 - (c) Pectineus
 - (d) Sartorius
13. The deepest of muscles is?
- (a) Vastus lateralis
 - (b) Vastus medialis
 - (c) Vastus intermedius
 - (d) Rectus femoris
14. Femoral vein recieves blood from?
- (a) External iliac vein
 - (b) Internal iliac vein
 - (c) Great saphenous vein
 - (d) Internal thoracic vein
15. How many lymph nodes are present in the popliteal fossa?
- (a) 4
 - (b) 6
 - (c) 8
 - (d) 10

True or False statements

16. The medial pectoral nerve innervates both pectoralis major and pectoralis minor
 - (a) True
 - (b) False

17. The female bony pelvis is broader and flatter than the male pelvis.
 - (a) True
 - (b) False

18. The sutures in the fetal skull are strong hard joints that hold the skull bones rigidly in place especially during birth, so that the brain tissue cannot be damaged.
 - (a) True
 - (b) False

19. Once the radial nerve passes through the radial groove, it

Passes through the intermuscular septum between the lateral head of the triceps and the brachialis.

 - (a) True
 - (b) False

20. Latissimus Dorsi would be innervated by Anterior Rami, thoracodorsal (C6,C7,C8)
 - (a) True
 - (b) False

SECTION B: Short Answer Questions (SAQs)

Answer all the questions in this section

1. (i) Using a diagram describe the anatomy of human vertebrae (4 Marks)
(ii) Draw a human sternum (4 Marks)

2. List the 4 bones that make up the carpals and 4 that make the tarsals (8 Marks)

3. With regards to the upper arm
 - (i) Name the different types of blood vessels supplying or contained in it (4 Marks)
 - (ii) Briefly describe the drainage (4 Marks)

4. (i) With the use of a diagram describe the anatomy of typical lymph node (4 Marks)

(ii) Describe a human long bone using a diagram (4 Marks)

5. With use of three examples in each class, classify bones (8 Marks)

SECTION C: Long Answer Questions (LAQs)

Answer all the questions in this section

1. Describe the muscles of the upper limbs (20 Marks)

2. Discuss the different types of joints giving at least three examples in each (20 Marks)