

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF MEDICAL LABORATORY SCIENCES

BMLS 4103: HUMAN ANATOMY I

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES:SEPTEMBER 2017

TIME: 2HOURS

DATE: SEPTEMBER 2017

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of Choose NoSection(s). Attempt ALL questions.

Circle the correct answer in section A.

Secion A.

Attempt all the questions provided in this section

- 1. A structure composed of two or more tissues is termed:
 - a. organ
 - b.organelle
 - c. serous membrane
 - d. complex tissue
 - e. organ system
- 2. Which of the following defines 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
 - e. is a membrane covering the bone tissue
- 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
- e. none of the above
- 4. Which of the following lies fully ipsilateral to the left iliac region:
 - a. epigastric region
 - b. left hypochondiac region
 - c. right inguinal region
 - d. hypogastric region
 - e.right lumbar region
 - 5. The "basic unit of life" is:
 - a. the atom
 - b. water
 - c. the cell
 - d. the chemical level of organization
 - e. organ system
 - 6. The elbow in relation to the wrist is:
 - a. distal
 - b. lateral
 - c. ventral
 - d. proximal
 - e. posterior
- 7. The heart in relation to the lungs is located:
 - a. superior
 - b. dorsal
 - c. medial
 - d. lateral
 - e. distal
- 8. Which of the following can be found in cartilage but not bone tissue:
 - a. lacunae
 - b. protein fibers
 - c. blood vessels
 - d. chondroitin
 - e.none of the above
- 9. The stratum corneum:
 - a. Is the layer of the epidermis that contains the youngest cells
 - b. Provides no protection from mechanical abrasion
 - c. Is the thinnest cell layer in thin skin
 - d. Can be considered an example of epithelial connective tissue
 - e. None of the above
- 10. Epithelia that consist of more than one layer of cells is termed:
 - a. striated
 - b. stratified

- c. stipilated
- d. intercalated
- e.complex epithelia
- 11. 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
 - e. only ground substance
- 12. Small hair-like structures on the surface of some epithelial cells are termed:
 - a. cilia
 - b. glia
 - c. villi
 - d. microvilli
 - e.microglia
- 13. Which of these cells are located in bone tissue:
 - a. chondroblasts
 - b. osteocytes
 - c. fibroblasts
 - d. chondrocytes
 - e. mast cells
- 14. Which of the following heals the quickest after injury:
 - a. bone
 - b. epithelium
 - c. cartilage
 - d. muscle
 - e. nerve
- 15. Which of the following does not describe skeletal muscle tissue fibers:
 - a. striated
 - b. voluntary
 - c. multinucleate
 - d. branched
 - e.none of the above
- 16. A tissue viewed under the microscope displays cells in little holes, densely packed fibers and no blood vessels. This describes:
 - a. dense regular connective tissue
 - b. hyaline cartilage
 - c. fibrocartilage
 - d. adipose tissue
 - e. loose connective tissue
 - 17. Which of the following characteristics can be used to describe epithelial tissue:
 - a. it is derived from mesenchyme
 - b. sarcomas originate from it

- c. it is well vascularized
- d. it forms the glands of the body
- e.does not divide with mitosis
- 18. The serous membrane lining the surface of the lung is the:
 - a. parietal pleura
 - b. visceral peritoneum
 - c. visceral pleura
 - d. peritoneal pleura
 - e. pericardium
- 19. The dense connective tissue covering outer surface of bone diaphyses is termed:
 - a. perichondrium
 - b. periosteum
 - c. endosteum
 - d. exofibrium
 - e. articular cartilage
- 20. A fracture in the shaft of a long bone would be a break in the:
 - a. epiphysis
 - b. metaphysis
 - c. diaphysis
 - d. epiphyseal plate
 - e. mesenchyme
- 21. Yellow marrow consists of:
 - a. osteoprogenitor cells
 - b. blood cell progenitor cells
 - c. hyaline cartilage
 - d. adipose
 - e. spongy bone
- 22. Which of the following is produced by Chondroblasts?
 - a. basement membranes
 - b. bone matrix
 - c. cartilage matrix
 - d. mesothelium
 - e. endothelium
- 23. Soft connective tissue membranes between the cranial bones at birth are:
 - a.an indication of microcephaly
 - b. frontal sinuses
 - c. epiphyseal plates
 - d. cribriform plates
 - e. fontanelles
- 24. Which of the following is not a cranial suture:
 - a. epiphyseal
 - b. lambdoidal
 - c. coronal
 - d. sagittal
 - e. squamous
- 25. The two pairs of bones that make up the hard palate are the right and left:
 - a. zygomatic and temporal
 - b. palatine and maxillae

c. maxillae and zygomatic d. maxillae and mandible e.mandible and zygomatic 26. The anatomic location of the spinal canal is a. caudal b. dorsal c. frontal d transverse e ventral 27. Which of the following is a structural, fibrous protein found in the dermis? a. Collagen b.Heparin c. Lipocyte d. Melanin e. Sebum 28. Which of the following is the point at which an impulse is transmitted from one neuron to another neuron? a. Dendrite b. Glial cell c Nerve center d Synapse e.Terminal plate 29. The majority of the dermis is composed of: a. Stratified squamous epithelium b. Areolar tissue c. Adipose tissue d. Reticular tissue e. Dense irregular connective tissue 30. Which of the following is true about the spinal cord a. Enlargements occur in the cervical and lumbar regions b. It forms part of the peripheral ganglia c. Sympathetic ganglia is found in the spinal cord d. Parasympathetic ganglia is found in the spinal cord e. None of the above

Section B

Answer all the questions

31a. Describe the boundaries of abdominal cavity and organs found therein. {13mks}

31b. Name the organs found in the pelvic cavity. {7mks}

32a.Describe the characteristics of epithelial cells {10marks}

32b. describe the parts of long bones {10marks}