



MASINDE MULIROUNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

SECOND YEARSECONDSEMESTER EXAMINATIONS

FOR THE DEGREE IN MEDICAL LABORATORY SCIENCES; MEDICAL BIOTECHNOLOGY; NUTRTION DIRECT ENTRY

MAIN EXAM

COURSE CODE:

BML122

COURSE TITLE:

SYSTEMIC HUMAN ANATOMY

DATE: 28/04/2022

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**).

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

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SECTION A: MULTIPLE CHOICE QUESTIONS (20MARKS)

Answer all questions

- 1. The venous drainage of the caudate lobe is into which structure?
 - A. Left hepatic vein
 - B. Middle hepatic vein
 - C. Right hepatic vein
 - D. Inferior venacava
 - E. Portal vein
- 2. Suspensory ligaments of the liver include?
 - A. Falciform ligament
 - B. Left triangular ligament
 - C. Right triangular ligament
 - D. Round ligament
 - E. ALL of the above
- 3. The round ligament is also known as?
 - A. Ligamentum teres
 - B. Arantius ligament
 - C. Ductus venosus
 - D. Left triangular ligament
 - E. falciform ligament
- 4. Cells that secrete HCL in the stomach are called?
 - A. Chief cells
 - B. B-cells
 - C. Enteroendocrine cells
 - D. Parietal cells
 - E. Enterocytes
- 5. Which part of the large intestine receives materials from the ileum?
 - A. Descending colon
 - B. Cecum
 - C. Ascending colon
 - D. Sigmoid colon
 - E. Rectum
- 6. The structure under inferior surface of the tongue is?
 - A. Foramen caecum of the tongue
 - B. Lingual tonsil
 - C. Sublingual caruncle
 - D. Vallate papilla
 - E. Limiting sulcus
- 7. The largest bone in the human is?
 - A. Skull
 - B. Spine
 - C. Femur
 - D. Tibia
 - E. Humerus
- 8. The difference between a broken bone and a broken bone is?
 - A. Severity
 - B. Location
 - C. Complication

- D. Bone involved
- E. No difference
- 9. When a forensic expert examines a skeleton, they can tell?
 - A. Age
 - B. Gender
 - C. Certain cause of death
 - D. All of the above
 - E. None of the above
- 10. Nutrients necessary for healthy bones include?
 - A. Calcium
 - B. Zinc + magnesium
 - C. Protein
 - D. All of the above
 - E. None of the above
- 11. The pharynx has _____ secretion
 - A. 1
 - B. 2
 - C. 3
 - D. 4
 - E. 5
- 12. Which is the correct path air takes when it enters the trachea on its way to the lungs?
 - A. Bronchi Bronchioles pulmonary capillaries alveoli
 - B. Bronchioles bronchi alveoli pulmonary capillaries
 - C. Bronchioles pulmonary capillaries alveoli bronchi
 - D. Bronchi bronchioles alveoli pulmonary capillaries
 - E. Bronchi alveoli bronchioles -pulmonary capillaries
- 13. Which stratum of the epidermis is full of keratin cornified to prevent water loss?
 - A. Basale
 - B. Granulosum
 - C. Corneum
 - D. Spinosum'
 - E. None of the above
- 14. The duodenum
 - A. Is a retroperitoneal structure
 - B. Is an intraperitoneal structure
 - C. Is 25 cm in length
 - D. Lies between levels of L4
 - E. Its fourth part lies to the right of the Aorta
- 15. Which of the following is a facial bone?
 - A. Frontal
 - B. Temporal
 - C. Sphenoid
 - D. Ethmoid
 - E. Maxillary
- 16. Neurons arise from embryonic
 - A. Endoderm
 - B. Epidermis
 - C. Mesoderm

- D. Mesenchyme
- E. Ectoderm
- 17. The narrowest part of the uterus is?
 - A. the fundus
 - B. the infundibulum
 - C. The body
 - D. The ampulla
 - E. The cervix
- 18. The abnormal thickening of the stratum corneum is known as?
 - A. Dandruff
 - B. Acne
 - C. Comedo
 - D. Cadlus
 - E. Abrasion
- 19. The innermost layer of the skin is?
 - A. Dermis
 - B. Epidermis
 - C. Hypodermis
 - D. Stratum lucidum
 - E. Stratum Basale
- 20. Collecting substances to provide structural and biochemical support to skin cells is performed by?
 - A. Fibroblasts
 - B. Adipocytes
 - C. Macrophages
 - D. Langerhans cells
 - E. Melanocytes

SECTION B - SHORT ANSWER QUESTIONS - (40 marks)

Answer all questions

- 1. Describe the form of pharynx, esophagus, lower esophageal sphincter(5 marks)
- 2. Describe the structures that increase the surface area of the small intestine (5 mark)
- 3. Describe the structural anatomy of the pharynx (5 marks)
- 4. List the components of the lymphatic system (5 marks)
- 5. Describe the heart valves stating their function and location (5 marks)
- 6. Describe the histology of the small intestine (5 marks)
- 7. Name the extrinsic muscles of the tongue and state their function (5 marks)
- 8. Describe the morphology of various neurons and their function (5 marks)

SECTION C - LONG ANSWER QUESTIONS (60marks)

Answer all questions

- 1. Describe;
 - a) Fetal circulation (12 marks)
 - b) Tetralogy of Fallot defects of the heart (8 marks)
- 2. Describe gross and microscopic anatomy of the gastrointestinal tract (20 marks)

3. Describe the gross anatomy and histology of the kidney(20 marks)