



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES**

DEPARTMENT OF NURSING AND MIDWIFERY SCIENCES

BACHELOR OF SCIENCE IN MIDWIFERY

END OF SEMESTER EXAMINATIONS

COURSE TITLE AND CODE: BSN 112/BSM 112: HUMAN ANATOMY I

DATE: 11-DECEMBER 2023

TIME: 2 HOURS START 11:15AM- FINISH: 1:15PM

INSTRUCTIONS

1. This Examination comprises **THREE** Sections. Section A: Multiple Choice Questions, Section B: Short Answer Questions and Section C: Long Answer Questions
 2. Answer **ALL** Questions
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SECTION A: MULTIPLE CHOICE QUESTIONS**(20 MARKS)**

1. A haploid cell has: -
 - A. 23 pairs of chromosomes
 - B. 22 autosomes and one sex chromosome
 - C. 22 autosomes and one X chromosome
 - D. 22 autosomes and one Y chromosome

2. The coronal plane divides the body into _____ and _____ parts.
 - A. Anterior; posterior
 - B. Superior; inferior
 - C. Right; left
 - D. Medial; lateral

3. The epithelial type correctly matched with its occurrence is: -
 - A. Stratified squamous – tongue
 - B. Simple columnar – corneal epithelium
 - C. Transitional epithelium – Fallopiian tube
 - D. Pseudostratified columnar – the vocal cords

4. During oogenesis: -
 - A. 1st meiosis is arrested in the prophase stage
 - B. Several oocytes attain maturity every month
 - C. 2nd meiosis is completed during ovulation
 - D. Changes occur only in the oocyte

5. Implantation: -
 - A. Usually occurs in lower uterine segment
 - B. Starts around day 9 after fertilization
 - C. Commonest ectopic site is ovary
 - D. Syncytiotrophoblast invades, ingests and digests endometrium

6. The day implantation commences in a normal menstrual cycle is: -
 - A. Day 14
 - B. Day 20
 - C. Day 26
 - D. Day 9

7. Meckel's diverticulum is due to persistence of: -
 - A. Allantois
 - B. Vitello-intestinal duct
 - C. Left umbilical vein
 - D. Ductus venosus

8. Type IV collagen is mainly found in: -
 - A. Bone
 - B. Cartilage
 - C. Spleen
 - D. Basement membranes

9. The following structures is at the proximal end of the humerus: -
- A. Olecranon fossa
 - B. Lateral epicondyle
 - C. Trochlea
 - D. Greater tubercle
10. The following bones articulates at a tarsal-metatarsal joint: -
- A. Calcaneus
 - B. Cuboid
 - C. Talus
 - D. Navicular
11. Costochondral joints are between: -
- A. Costal cartilages of ribs VII to X
 - B. Bodies and cartilage of the floating ribs
 - C. Costal cartilage and thoracic vertebrae
 - D. Costal cartilage and bodies of ribs
12. Mr. A suffered muscle pain after carrying heavy planks of wood on his shoulder. The most likely affected muscle is: -
- A. Latissimus dorsi
 - B. Deltoid
 - C. Levator scapula
 - D. Supraspinatus
13. The following is a muscle of the forearm: -
- A. Thenar eminence
 - B. Branchialis
 - C. Palmaris longus
 - D. Adductor pollicis
14. The following is odd out in the plantar fascia: -
- A. It runs along the sole of the feet
 - B. It has a long and a short head
 - C. It fastens the distal ends of the tibia and fibula
 - D. It fastens the calcaneus to the phalanges of the toes
15. The primary sensory cortex is located in: -
- A. Post central gyrus
 - B. Precentral gyrus
 - C. Brodmann's area 44
 - D. Precentral sulcus
16. The main commissural fiber in the brain is: -
- A. Corpus callosum
 - B. Anterior commissure
 - C. Posterior commissure
 - D. Hippocampal commissure

17. The hindbrain consists of: -
 - A. Occipital lobe and cerebellum
 - B. Cerebellum and diencephalon
 - C. Spinal cord, medulla and cerebellum
 - D. Medulla oblongata, pons and cerebellum

18. The following is a nerve of the cervical plexus: -
 - A. Phrenic nerve
 - B. Musculocutaneous nerve
 - C. Ulnar nerve
 - D. Median nerve

19. The source of nutrients to the fibula is: -
 - A. Posterior tibial artery
 - B. Peroneal artery
 - C. Anterior tibial artery
 - D. Femoral artery

20. Pulmonary surfactant increases: -
 - A. The surface tension of the fluid lining alveolar walls
 - B. Lung compliance
 - C. Ineffectiveness as the lungs are inflated
 - D. In amount when the pulmonary blood flow is interrupted

SECTION B: SHORT ANSWER QUESTIONS

(30 MARKS)

1. State the following about the yolk sac.
 - a. Functions (3 Marks)
 - b. Fate (2 Marks)

2.
 - a. Name the three (3) layers of the trilaminar embryonic disc (week 3). (3 Marks)
 - b. Name the fetal and maternal component of the placenta. (2 Marks)

3. Using diagrams, describe anatomy of the elbow joint. (5 Marks)

4. Use a labeled diagram to illustrate the frontal anatomy of the eye (5 Marks)

5.
 - a. Name three (3) superficial veins of the upper limb. (3 Marks)
 - b. Name the main nerve of: (2 Marks)
 - i. Anterior arm compartment
 - ii. Posterior forearm

6. State five (5) anatomical features that distinguish the right lung from the left one. (5 Marks)

SECTION C: LONG ANSWER QUESTIONS

(20 MARKS)

1. The central nervous system comprises the brain and spinal cord that collect, interpret, and direct body impulses.

- a) Draw a well-labeled diagram of the surface anatomy of the brain, indicate the role of each part labeled.
(10 Marks)
- b) Draw a cross-sectional diagram of the spinal cord at the level of T7. Include the spinal nerve attachments.
(10 Marks)

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