



**AMREF INTERNATIONAL UNIVERSITY**

**SCHOOL OF MEDICAL SCIENCES**

**DEPARTMENT OF NURSING & MIDWIFERY SCIENCES**

**END OF DECEMBER SEMESTER 2025 EXAMINATIONS**

**COURSE CODE AND TITLE: BSN122 Human Anatomy II**

**DATE: 2<sup>ND</sup> DECEMBER-2025**

**TIME: 9:00AM-11:00AM**

**Duration: 2 HOURS**

**INSTRUCTIONS**

1. This exam is out of 70 marks
2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions (20 marks) Section II: Short Answer Questions (30 marks) and Section III: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Do Not write anything on the question paper -use the back of your booklet for rough work if need be.

**SECTION A: Multiple Choice Questions**

**(20 Marks).**

1. The organ characterized by presence of taeniae coli is: -
  - A. Small intestine
  - B. Colon
  - C. Stomach
  - D. Esophagus
2. Atresia of the anus (imperforate anus) is due to:
  - A. Failure of cloacal membrane rupture
  - B. Failure of vitelline duct closure
  - C. Non-fusion of lateral folds
  - D. Malrotation
3. The hormones released by the posterior pituitary gland are:
  - A. Follicle Stimulating Hormone and Luteinizing Hormone
  - B. Growth Hormone and Adrenocorticotropin Hormone
  - C. Antidiuretic Hormone and Oxytocin
  - D. Prolactin and Thyroid Stimulating Hormone
4. Hormones secreted by juxtaglomerular cells?
  - A. Aldosterone
  - B. Renin
  - C. Angiotensin II
  - D. Antidiuretic Hormone
5. The part of the male urethra that passes through the prostate is: -
  - A. Spongy urethra
  - B. Prostatic urethra
  - C. Membranous urethra
  - D. Bulbar urethra
6. The artery that supplies the superior pole of the thyroid gland is:
  - A. Inferior thyroid artery
  - B. Superior thyroid artery
  - C. External carotid artery
  - D. Subclavian artery

7. The vaginal wall is lined by:
  - A. Simple columnar epithelium
  - B. Stratified squamous epithelium (non-keratinized)
  - C. Transitional epithelium
  - D. Pseudostratified epithelium
8. The deepest layer of the anterior abdominal wall is:
  - A. External oblique
  - B. Internal oblique
  - C. Transversus abdominis
  - D. Rectus abdominis
9. The portal triad of the liver consists of:
  - A. Hepatic vein, bile duct, lymphatics
  - B. Hepatic artery, portal vein, bile duct
  - C. Portal vein, central vein, hepatic artery
  - D. Bile duct, hepatic vein, lymphatics
10. The renal medulla is characterized by the presence of:
  - A. Glomeruli
  - B. Medullary pyramids with loops of Henle and collecting ducts
  - C. Renal corpuscles
  - D. Peritubular capillaries only
11. Omphalocele is best described as:
  - A. Failure of closure of the lateral folds
  - B. Persistence of vitelline duct
  - C. Herniation of abdominal contents without a sac
  - D. Rotation anomaly of midgut
12. The bladder's detrusor muscle is made of:
  - A. Smooth muscle arranged in three layers
  - B. Skeletal muscle
  - C. Elastic fibers only
  - D. Longitudinal skeletal fibers

13. The main exocrine secretion of the pancreas is:
- A. Insulin
  - B. Glucagon
  - C. Digestive enzymes
  - D. Somatostatin
14. Which layer of the gut wall contains Meissner's plexus?
- A. Mucosa
  - B. Submucosa
  - C. Muscularis externa
  - D. Serosa
15. Which duct carries sperm from the epididymis to the urethra is the:
- A. Seminal vesicle
  - B. Vas deferens
  - C. Ejaculatory duct
  - D. Prostate
16. The nerve responsible for bladder contraction during micturition is:
- A. Sympathetic hypogastric nerve
  - B. Parasympathetic pelvic splanchnic nerve
  - C. Pudendal nerve
  - D. Vagus nerve
17. Hypospadias refers to abnormal opening of the urethra on the:
- A. Upper surface of penis
  - B. Underside of penis
  - C. Scrotum
  - D. Perineum
18. Peyer's patches are most prominent in:
- A. Duodenum
  - B. Jejunum
  - C. Ileum
  - D. Stomach

19. The uterus is normally positioned:

- A. Retroverted and retroflexed
- B. Anteverted and anteflexed
- C. Straight and neutral
- D. Retroverted only

20. The adrenal medulla secretes;

- A. Cortisol and aldosterone
- B. Adrenaline and noradrenaline
- C. Androgens only
- D. Estrogen

**SECTION B: SHORT ANSWER QUESTIONS**

**(30 marks)**

1. Outline the four main layers of the alimentary canal and mention one key histological feature for each **(5 Marks)**
2. State the structural adaptation of the female reproductive system. **(5 Marks)**
3. Explain the structure and function of the testes. **(5 Marks)**
4. List the three zones of the adrenal cortex and the main class of hormones secreted by each. **(5 Marks)**
5. State the blood supply to the stomach. **(5 Marks)**

**SECTION C: LONG ANSWER QUESTION.**

**(20 marks)**

**Choose ONE Question ONLY**

1. (a) Describe the gross anatomy, microanatomy, and functions of the kidney. **(10 marks)**  
(b) Explain how the structural features of kidney are adapted to its role in excretion and homeostasis. **(10 marks)**
2. Mr. Omar was a diagnosed with a tumor of the pituitary gland.
  - a) Discuss the function of **eight** hormones that are likely to be impacted by his diagnosis **(20 marks)**