



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
END OF SEMESTER EXAMINATION APRIL 2026 EXAMINATION**

COURSE CODE AND TITLE: BSN 122 Human Anatomy II

DATE: 9TH APRIL 2026

Duration: 2HOURS

Start: 9AM

Finish: 2PM

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 feature that distinguishes the colon from the small intestine?
 - A. Circular folds
 - B. Presence of villi
 - C. Haustra
 - D. Plicae circulares
2. Failure of descent of the urorectal septum most commonly results in:
 - A. Omphalocele
 - B. Meckel's diverticulum

- C. Rectourethral fistula
D. Gastroschisis
3. The hormone responsible for uterine contraction during labor is secreted by the:
- A. Anterior pituitary
B. Posterior pituitary
C. Hypothalamus
D. Adrenal cortex
4. Juxtaglomerular cells are modified smooth muscle cells located in the:
- A. Collecting duct
B. Distal convoluted tubule
C. Afferent arteriole
D. Efferent arteriole
5. The shortest portion of the male urethra:-
- A. Prostatic
B. Membranous
C. Spongy
D. Bulbar
6. The inferior thyroid artery arises from the:
- A. External carotid artery
B. Common carotid artery
C. Thyrocervical trunk
D. Internal carotid artery
7. The vaginal epithelium primarily functions to:
- A. Secrete mucus
B. Absorb nutrients
C. Resist friction and infection
D. Produce hormones
8. Muscle that contributes most to increasing intra-abdominal pressure?
- A. Rectus abdominis
B. External oblique

- C. Transversus abdominis
 - D. Pyramidalis
9. Blood from the gastrointestinal tract reaches the liver via the:
- A. Hepatic artery
 - B. Inferior vena cava
 - C. Portal vein
 - D. Hepatic vein
10. Structure that is absent in the renal medulla?
- A. Collecting ducts
 - B. Loops of Henle
 - C. Glomeruli
 - D. Vasa recta
11. Gastroschisis differs from omphalocele because it:
- A. Is covered by peritoneum
 - B. Occurs through the umbilical ring
 - C. Lacks a protective sac
 - D. Is associated with chromosomal anomalies
12. Voluntary control of micturition is mediated by the:
- A. Pelvic splanchnic nerve
 - B. Hypogastric nerve
 - C. Pudendal nerve
 - D. Vagus nerve
13. Pancreatic cells are responsible for exocrine secretion?
- A. Alpha cells
 - B. Beta cells
 - C. Acinar cells
 - D. Delta cells
14. Auerbach's (myenteric) plexus is located between the:
- A. Mucosa and submucosa
 - B. Submucosa and serosa

- C. Circular and longitudinal muscle layers
 - D. Serosa and adventitia
15. The ejaculatory duct opens into the:
- A. Prostatic urethra
 - B. Membranous urethra
 - C. Spongy urethra
 - D. Bladder neck
16. Sympathetic stimulation of the bladder causes:
- A. Detrusor contraction
 - B. Internal sphincter relaxation
 - C. Detrusor relaxation
 - D. Increased urine output
17. Epispadias is characterized by urethral opening on the:
- A. Underside of penis
 - B. Glans only
 - C. Upper surface of penis
 - D. Scrotum
18. Immune tissue is abundant in the distal small intestine?
- A. Tonsils
 - B. Appendix
 - C. Peyer's patches
 - D. Thymus
19. The ligament that helps maintain the anteverted position of the uterus?
- A. Broad ligament
 - B. Round ligament
 - C. Cardinal ligament
 - D. Uterosacral ligament
20. The adrenal medulla is functionally related to the:
- A. Parasympathetic nervous system
 - B. Sympathetic nervous system

- C. Endocrine pancreas
- D. Renin–angiotensin system

SECTION B: Short Answer Question. Choose ONE Question ONLY (30 marks). Each Question is 5 Marks.

1. Outline the layers of the abdominal wall from the skin to the abdominal cavity (5marks)
2. Giving example, explain the concept of negative feedback mechanism (5marks)
3. State the parts and function of the different zones of the adrenal glands (5marks)
4. Name hormones produced by hypothalamus region of the brain (5marks)
5. State the blood supply to the stomach (5marks)

SECTION C: Long Answer Question. Choose ONE Question ONLY (20 marks)

1. The hepatobiliary system is important in the human system
 - a. Discuss the hepatobiliary system and how it pours its content into the digestive system (10marks)
 - b. Discuss the function of hormones produced by the posterior pituitary gland. (10 marks)