



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
END OF SEMESTER AUGUST 2026 EXAMINATIONS

COURSE CODE AND TITLE: BSN 122: HUMAN ANATOMY II

DATE: 5th AUGUST 2026

Duration: 2 HOURS

START: 9AM

STOP: 11AM

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 layer of the skin that contains keratinocytes:-
 - A. Dermis
 - B. Epidermis
 - C. Hypodermis
 - D. Fascia
2. The organ of hearing:-
 - A. Utricle
 - B. Sacculle
 - C. Organ of Corti
 - D. Semicircular canals
3. The electrolyte that is responsible for resting membrane potential:-
 - A. Sodium influx
 - B. Potassium efflux
 - C. Calcium influx
 - D. Chloride influx
4. The receptor of the skins responsible for detecting light touch:-
 - A. Pacinian corpuscle
 - B. Meissner's corpuscle
 - C. Ruffini ending
 - D. Free nerve ending
5. Bitemporal hemianopia results from lesion at what point of the optic pathway:-
 - A. Optic nerve
 - B. Optic chiasma
 - C. Optic tract
 - D. Visual cortex
6. Cerebrospinal fluid is produced in:-
 - A. Arachnoid mater
 - B. Choroid plexus
 - C. Dura mater
 - D. Pia mater

7. The structure that is NOT found within the portal triad at the periphery of a hepatic lobule is:-
- A. Branch of portal vein
 - B. Branch of hepatic artery
 - C. Interlobular bile duct
 - D. Central vein
8. The hormone responsible for uterine contraction during labor is secreted by the:-
- A. Anterior pituitary
 - B. Posterior pituitary
 - C. Hypothalamus
 - D. Adrenal cortex
9. Juxtaglomerular cells are modified smooth muscle cells located in the:-
- A. Collecting duct
 - B. Distal convoluted tubule
 - C. Afferent arteriole
 - D. Efferent arteriole
10. Caput medusae is best explained by dilation of veins connecting:-
- A. Systemic–systemic venous system
 - B. Portal–portal system
 - C. Portal–systemic (porto-caval) anastomosis
 - D. Arterial–venous shunts
11. The internal urethral sphincter is under control of:-
- A. Somatic nervous system
 - B. Parasympathetic only
 - C. Sympathetic (involuntary smooth muscle)
 - D. Voluntary skeletal muscle
12. The muscle that contributes most to increasing intra-abdominal pressure:-
- A. Rectus abdominis
 - B. External oblique
 - C. Transversus abdominis
 - D. Pyramidalis

13. Blood from the gastrointestinal tract reaches the liver via the:-

- A. Hepatic artery
- B. Inferior vena cava
- C. Portal vein
- D. Hepatic vein

14. The structure that is absent in the renal medulla:-

- A. Collecting ducts
- B. Loops of Henle
- C. Glomeruli
- D. Vasa recta

15. 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

16. Voluntary control of micturition is mediated by the:-

- A. Pelvic splanchnic nerve
- B. Hypogastric nerve
- C. Pudendal nerve
- D. Vagus nerve

17. The pancreatic cells responsible for exocrine secretion:-

- A. Alpha cells
- B. Beta cells
- C. Acinar cells
- D. Delta cells

18. 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

19. The most common site of ectopic pregnancy (ampulla) is predisposed due to:-

- A. Narrow lumen
- B. Delayed transport of fertilized ovum
- C. Poor blood supply
- D. Lack of cilia

20. Sympathetic stimulation of the bladder causes:-

- A. Detrusor contraction
- B. Internal sphincter relaxation
- C. Detrusor relaxation
- D. Increased urine output

SECTION B: Short Answer Question. Each Question is.

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| 1. State five adaptation of the skin to function | 5 Marks |
| 2. Giving example, explain the concept of negative feedback mechanism of hormones. | 5 Marks |
| 3. Highlight the functions of the five lobes of the brain. | 5 Marks |
| 4. Outline the visual pathway taken by an object that has been visualized | 5 Marks |
| 5. State five common congenital disorders of the digestive system | 5 Marks |
| 6. Outline the step followed by bile in the biliary tree | 5 Marks |

SECTION C: LONG ANSWER QUESTION. CHOOSE ONE QUESTION ONLY (20 MARKS)

1. (a) Discuss the adaptation of the female reproductive system to its functions (10 marks).
(b) Discuss the functions of hormones produced by the anterior pituitary gland.
(10 marks)
2.
 - a) Describe the functions and regulation of mechanism of hormones produced by the thyroid gland. (10 marks)
 - b) Discuss the function of the **ten** cranial nerves of the brain (10 marks)