



**COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES
DEPARTMENT OF PUBLIC HEALTH AND NURSING**

SNS1101: HUMAN ANATOMY

END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER / DECEMBER 2025

LECTURER: DR A KAPFUNDE

DURATION: 3 HRS

INSTRUCTIONS

You are required to answer questions as instructed in each section

Start **each** question on a new page in your answer booklet

Answer all questions in **Section A (40 MARKS)**

Answer any **THREE (3)** questions from **Section B (60MARKS)**

Credit will be awarded for logical, systematic and neat presentations

SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

Question 1: What is the primary function of the alveoli in the respiratory system?

- a) Filtration of air
- b) Gas exchange
- c) Sound production
- d) Regulation of blood pressure

Question 2: Which type of muscle tissue is involuntary and found in the walls of internal organs?

- a) Skeletal muscle
- b) Cardiac muscle
- c) Smooth muscle
- d) Striated muscle

Question 3: What is the largest organ in the human body?

- a) Heart
- b) Liver
- c) Skin
- d) Brain

Question 4: Which part of the brain is responsible for regulating heart rate and breathing?

- a) Cerebrum
- b) Cerebellum
- c) Brainstem
- d) Thalamus

Question 5: The functional unit of the kidney responsible for filtering blood is called:

- a) Nephron
- b) Glomerulus
- c) Alveolus
- d) Neuron

Question 6: Which of the following is NOT a function of the liver?

- a) Detoxification of blood
- b) Production of bile

- c) Regulation of blood glucose levels
- d) Production of insulin

Question 7: The renal pelvis is part of which organ?

- a) Heart
- b) Liver
- c) Kidney
- d) Spleen

Question 8: What type of joint allows for the greatest range of motion?

- a) Hinge joint
- b) Ball-and-socket joint
- c) Pivot joint
- d) Saddle joint

Question 9: Which artery supplies blood to the brain?

- a) Aorta
- b) Carotid artery
- c) Subclavian artery
- d) Femoral artery

Question 10: The primary component of the central nervous system is:

- a) Peripheral nerves
- b) Neurons
- c) Blood vessels
- d) Connective tissue

Question 11: Which hormone is primarily responsible for regulating the sleep-wake cycle?

- a) Cortisol
- b) Melatonin
- c) Insulin
- d) Adrenaline

Question 12: The structure that connects muscles to bones is called:

- a) Tendon
- b) Ligament
- c) Cartilage
- d) Fascia

Question 13: What is the primary role of the large intestine in digestion?

- a) Nutrient absorption
- b) Water absorption
- c) Enzyme production
- d) Chemical digestion

Question 14: Which part of the eye is responsible for focusing light onto the retina?

- a) Cornea
- b) Iris
- c) Lens
- d) Sclera

Question 15: The main function of red blood cells is to:

- a) Fight infections
- b) Carry oxygen
- c) Clot blood
- d) Regulate body temperature

Question 16: Which structure in the brain is primarily responsible for memory formation?

- a) Hippocampus
- b) Amygdala
- c) Thalamus
- d) Cerebellum

Question 17: What type of connective tissue connects bones to other bones?

- a) Tendon
- b) Cartilage
- c) Ligament
- d) Fascia

Question 18: The primary function of the pancreas in the digestive system is to:

- a) Produce bile
- b) Secrete digestive enzymes
- c) Absorb nutrients
- d) Store glycogen

Question 19: Which part of the respiratory system is responsible for the production of sound?

- a) Trachea
- b) Larynx
- c) Pharynx
- d) Bronchi

Question 20: The primary function of the gallbladder is to:

- a) Produce bile
- b) Store bile
- c) Detoxify blood
- d) Store glucose

Question 21: Which type of blood vessel carries oxygenated blood away from the heart?

- a) Veins
- b) Capillaries
- c) Arteries
- d) Venules

Question 22: What is the function of the myelin sheath?

- a) Protects neurons
- b) Increases nerve impulse speed
- c) Stores neurotransmitters
- d) Connects muscles to bones

Question 23: The structure that regulates the passage of air into the lungs is:

- a) Pharynx
- b) Larynx
- c) Trachea
- d) Bronchi

Question 24: Which of the following is responsible for the production of antibodies?

- a) Red blood cells
- b) B cells
- c) T cells
- d) Platelets

Question 25: The primary site of nutrient absorption in the digestive system is:

- a) Stomach
- b) Small intestine

- c) Large intestine
- d) Esophagus

Question 26: Which organ is primarily responsible for detoxifying harmful substances in the body?

- a) Kidney
- b) Liver
- c) Spleen
- d) Pancreas

Question 27: What type of joint allows for rotational movement?

- a) Hinge joint
- b) Ball-and-socket joint
- c) Pivot joint
- d) Saddle joint

Question 28: Which part of the neuron receives signals from other neurons?

- a) Axon
- b) Dendrite
- c) Soma
- d) Myelin sheath

Question 29: The protective outer layer of the heart is called:

- a) Endocardium
- b) Myocardium
- c) Pericardium
- d) Epicardium

Question 30: The function of the small intestine's villi is to:

- a) Produce digestive enzymes
- b) Absorb nutrients
- c) Store bile
- d) Protect the intestinal lining

Question 31: Which hormone is produced by the adrenal glands and is involved in the body's stress response?

- a) Insulin
- b) Cortisol
- c) Estrogen
- d) Testosterone

Question 32: The primary function of the cerebellum is to:

- a) Control breathing
- b) Regulate emotional responses
- c) Coordinate voluntary movements and balance
- d) Process visual information

Question 33: Which part of the digestive system is responsible for the majority of water absorption?

- a) Stomach
- b) Small intestine
- c) Large intestine
- d) Esophagus

Question 34: The cells responsible for transmitting nerve impulses are called:

- a) Glial cells
- b) Neurons
- c) Epithelial cells
- d) Myocytes

Question 35: The outermost layer of the skin is known as:

- a) Dermis
- b) Epidermis
- c) Hypodermis
- d) Subcutaneous layer

Question 36: Which part of the eye is responsible for controlling the amount of light that enters?

- a) Cornea
- b) Retina
- c) Iris
- d) Lens

Question 37: What type of joint is found in the shoulder and allows for a wide range of motion?

- a) Hinge joint
 - b) Ball-and-socket joint
 - c) Pivot joint
 - d) Saddle joint
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Question 38: The primary role of the thyroid gland is to:

- a) Regulate calcium levels
- b) Control metabolism through hormone secretion
- c) Produce insulin
- d) Filter blood

Question 39: The structure that connects the brain to the spinal cord is called the:

- a) Medulla oblongata
- b) Cerebellum
- c) Corpus callosum
- d) Pons

Question 40: Which type of connective tissue stores energy in the form of fat?

- a) Cartilage
- b) Bone
- c) Adipose tissue
- d) Blood

SECTION B: ANSWER ANY THREE (3) QUESTIONS (60MARKS)

Question 1: (20 marks)

Describe the major bones of the human skull, including their locations and functions.

Question 2: (20 marks)

Describe the anatomy of the digestive system, focusing on the major organs and their locations.

Question 3: (20 marks)

Describe the macro structures of the heart, including chambers, valves, and associated blood vessels.

Question 4: (20 marks)

Describe the macro and microscopic structure of the lungs, including location.