REV-01
BOT/15/20

2025/05

SET A

B.Sc. OPERATION THEATRE TECHNOLOGY
SECOND SEMESTER
ANATOMY-II
BOT-201

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs. **Full Marks: 70**

Objective

Time: 30 mins. **Marks: 20**

Choose the correct answer from the following: ***1×20=20***

1. Which of the following is not a part of the lower respiratory tract?
   a. Trachea
   b. Bronchi
   c. Larynx
   d. Lungs

2. What is the main function of the pleura?
   a. To filter air entering the lungs
   b. To provide oxygen exchange
   c. To reduce friction during lung expansion and contraction
   d. To produce mucus

3. The nasal cavity is primarily lined with which type of epithelium?
   a. Simple squamous epithelium
   b. Pseudostratified ciliated columnar epithelium
   c. Stratified squamous epithelium
   d. Cuboidal epithelium

4. Which structure acts as a flap to prevent food from entering the trachea?
   a. Epiglottis
   b. Pharynx
   c. Vocal cords
   d. Diaphragm

5. Which cranial nerve is responsible for vision?
   a. Olfactory nerve
   b. Facial nerve
   c. Optic nerve
   d. Vagus nerve

6. Which lobe of the brain is responsible for processing visual information?
   a. Frontal lobe
   b. Parietal lobe
   c. Temporal lobe
   d. Occipital lobe

7. The basic structural and functional unit of the nervous system is:
   a. Axon
   b. Neuron
   c. Dendrite
   d. Synapse

8. The vagus nerve is also known as cranial nerve number:
   a. VII
   b. VIII
   c. IX
   d. X

9. The kidneys are located in which anatomical position?
   a. Intraperitoneal, anterior to the stomach
   b. Within the thoracic cavity, beneath the diaphragm
   c. Retroperitoneal, on either side of the vertebral column
   d. In the pelvic cavity, posterior to the bladder

10. The funnel-shaped structure in the kidney that collects urine from the calyces is called the:
    a. Renal cortex
    b. Renal medulla
    c. Renal pelvis
    d. Nephron

11. The internal urethral sphincter is made of which type of muscle and is under what control?
    a. Skeletal muscle, voluntary control
    b. Cardiac muscle, involuntary control
    c. Smooth muscle, involuntary control
    d. Skeletal muscle, involuntary control

12. Which structure in the male reproductive system stores and matures sperm?
    a. Prostate gland
    b. Epididymis
    c. Vas deferens
    d. Testes

13. The thyroid gland requires which mineral to produce hormones?
    a. Iron
    b. Calcium
    c. Iodine
    d. Zinc

14. Melatonin is secreted by the:
    a. Pituitary gland
    b. Pineal gland
    c. Adrenal gland
    d. Thymus

15. Hypersecretion of growth hormone in adults causes:
    a. Dwarfism
    b. Acromegaly
    c. Gigantism
    d. Diabetes mellitus

16. Which hormone increases the reabsorption of sodium in the kidneys?
    a. Insulin
    b. Glucagon
    c. Aldosterone
    d. ADH

17. Which part of the eye controls the amount of light entering the eye?
    a. Lens
    b. Retina
    c. Iris
    d. Cornea

18. The organ of Corti is associated with which sense?
    a. Vision
    b. Taste
    c. Smell
    d. Hearing

19. Rod cells in the retina are responsible for:
    a. Color vision
    b. Vision in dim light
    c. Sharp vision
    d. Visual acuity

20. Which papillae on the tongue contain the most taste buds?
    a. Filiform
    b. Foliate
    c. Fungiform
    d. Circumvallate

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(Descriptive)

Time : 2 hr. 30 mins. **Marks : 50**

[Answer question no.1 & any four (4) from the rest]

1.	Define the larynx and trachea and explain their anatomical structure in details.	2+8=10
2.	Discuss the anatomical structure of the parathyroid glands, their location, and the role of parathyroid hormone along with a labelled diagram.	10
3.	Explain the structural components of nephron based on their location with labeled diagrams.	10
4.	Name the different parts of male internal and external reproductive organs. Explain in details the anatomical structure of testes with a labelled diagram.	2+8=10
5.	Describe the anatomical structures of the uterus and fallopian tubes.	5+5=10
6.	Write a detailed account of the ascending (sensory) and descending (motor) tracts of the spinal cord.	10
7.	Name the twelve cranial nerves with one function of each.	10
8.	Describe the pathway of visual impulses from the retina to the visual cortex. Along with a labelled diagram.	10

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