REV-01
BAOT/63/68

2025/11

SET A

B.Sc. ANAESTHESIA & OPERATION THEATRE TECHNOLOGY
FIRST SEMESTER
ANATOMY
BAOT-103

[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 muscle is the primary muscle of inspiration?
   a. Intercostal muscles
   b. Sternocleidomastoid
   c. Diaphragm
   d. Abdominal muscles

2. The pacemaker of the heart is:
   a. AV node
   b. SA nodes
   c. Bundle of His
   d. Purkinje fibers

3. Which of the following has the highest affinity for hemoglobin?
   a. Oxygen
   b. Carbon-dioxide
   c. Carbon-monoxide
   d. Nitrogen

4. How many pairs of ribs are present in the adult human ribcage?
   a. 10
   b. 11
   c. 14
   d. 12

5. Which bone is part of the upper limb?
   a. Femur
   b. Scapula
   c. Tibia
   d. Fibula

6. The space between two ribs is called:
   a. Pleura
   b. Mediastinum
   c. Thoracic cavity
   d. Intercostal space

7. Which chamber of the heart pumps oxygenated blood to the body?
   a. Right atrium
   b. Right ventricle
   c. Left atrium
   d. Left ventricle

8. Coronary arteries supply blood to the:
   a. Lungs
   b. Heart muscles
   c. Brain
   d. Kidneys

9. The main action of flexor muscles of the forearm is:
   a. Extension
   b. Rotation
   c. Flexion
   d. Abduction

10. Digestion of carbohydrates begins in the:
    a. Stomach
    b. Large intestine
    c. Small intestine
    d. Oral cavity

11. The longest bone in the human body is the:
    a. Tibia
    b. Fibula
    c. Femur
    d. Humerus

12. The vertebral column normally consists of how many vertebrae?
    a. 12
    b. 24
    c. 32
    d. 33

13. The powerhouse of the cell is:
    a. Nucleus
    b. Ribosome
    c. Mitochondria
    d. Golgi apparatus

14. The vertebral column is made up of how many cervical vertebrae?
    a. 5
    b. 12
    c. 7
    d. 10

15. The voice box is another name for the:
    a. Trachea
    b. Larynx
    c. Pharynx
    d. Bronchi

16. The valve between the left atrium and left ventricle is:
    a. Aortic valve
    b. Mitral valve
    c. Pulmonary valve
    d. Tricuspid valve

17. Ureters carry urine from the:
    a. Bladder to kidneys
    b. Kidney to liver
    c. Kidneys to bladder
    d. Urethra to bladder

18. The longest part of the digestive tract is the:
    a. Stomach
    b. Rectum
    c. Large intestine
    d. Small intestine

19. Absorption of most nutrients occurs in the:
    a. Stomach
    b. Small intestine
    c. Large intestine
    d. Esophagus

20. Which enzyme is present in saliva?
    a. Pepsin
    b. Amylase
    c. Lipase
    d. Trypsin

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Descriptive

Time : 2 hr. 30 mins. Marks : 50

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

1. Describe the anatomy of the heart in detail with a labelled diagram. 10
2. Describe the gross anatomy, structure and function of the kidney with a neat labelled diagram. 10
3. Discuss the gross anatomy of the lungs in detailed with a labelled diagram. 10
4. Describe the gross anatomy of the urinary system bladder including surfaces, relation and blood supply. 10
5. What is digestive system and write down the functions of digestive system with a labelled diagram. 10
6. Define bone and list the function of the bone. Write down the classification of bone according to the shape with examples. 5+5=10
7. Define respiratory system. Explain the structures of both the upper and lower respiratory tracts. 1+9=10
8. What is anatomical and fundamental position? Write about supine prone and lithotomy position. Write down the anatomical planes of the body. 3+3+4=10

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