

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

(5 Pages)

Reg. No:

Question Code No : 25002903

Course Code : 25UEPE11

UG Degree - End Semester Examinations, November 2025

First Semester

B.Sc. PHYSICAL EDUCATION

Anatomy and Physiology

(For those who joined in June 2025 onwards)

Time : 3Hours

Maximum : 75 Marks

PART – A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer:

1. The study of functions of the human body
 - (a) Anatomy
 - (b) Cytology
 - (c) Physiology
 - (d) Myology
2. The basic structural and functional unit of life
 - (a) Cell
 - (b) Organ
 - (c) Tissue
 - (d) System

3. Synovial joint is otherwise called as
- (a) Slightly movable (b) Immovable
(c) Freely movable (d) None of these
4. Which of the following bones is part of the pelvic girdle?
- (a) Femur (b) Radius
(c) Ilium (d) Scapula
5. Which part of nervous system consists of the brain and spinal cord?
- (a) Peripheral Nervous System
(b) Central Nervous system
(c) Autonomic Nervous System
(d) Sensory Nervous System
6. Which enzyme in saliva begins the digestion of starch?
- (a) Lipase (b) Amylase
(c) Pepsin (d) Trypsin
7. The maximum amount of air a person can exhale after taking the deepest possible breath is called as
- (a) Tidal volume (b) Reserve volume
(c) Vital capacity (d) Lung capacity
8. Cardiac Output is defined as
- (a) Heart rate \times Stroke volume
(b) Heart rate \div Stroke volume

(c) Stroke volume \div Blood pressure

(d) Heart rate \times Blood pressure

9. What is the primary function of thyroid glands?

(a) Regulate blood sugar (b) Control metabolism

(c) Produce digestive enzymes (d) Store calcium

10. Which is the master gland of endocrine system?

(a) Thyroid (b) Pancreas

(c) Pituitary (d) Adrenal

PART - B (5 X 5 = 25 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 250 words.

11. (a) Explain the structure and function of cell.

(OR)

(b) Explain about the muscular system and its types.

12. (a) Describe the function and classification of bones.

(OR)

(b) Explain the structure and function of vertebral column.

13. (a) Differentiate between central and peripheral nervous system.

(OR)

(b) Explain about the structure and function of neuron.

14. (a) Examine the process of gas exchange in the lungs and the role of alveoli in respiration.

(OR)

(b) Analyze about the stroke volume and cardiac output.

15. (a) Describe the function of thyroid glands in metabolism.

(OR)

(b) Explain about the function of pituitary glands and its role in regulating other endocrine glands.

PART - C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 500 words.

16. (a) What is the meaning of tissue? And explain its types and functions.

(OR)

(b) List down the need and importance of anatomy and physiology in the field of physical education.

17. (a) Describe about the joint and classify the types of joints.

(OR)

(b) Explain the structure and function of pelvic girdle.

18. (a) Diagrammatically explain the structure and function of nervous system.

(OR)

(b) Discuss the process of nerve impulse transmission across a synapse.

19. (a) Explain the structure and function of respiratory system with neat diagram.

(OR)

(b) Describe the structure and function of human heart.

20. (a) Explain about the endocrine glands and explain their functions in the human body.

(OR)

(b) Explain the hormone influence in growth and development of a human body.