

19. (a) Describe Gaseous Exchange.

Or

(b) Distinguish Cardiac Output and Stroke Volume.

20. (a) List down the functions of Pituitary glands.

Or

(b) List down the functions of Adrenal glands.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

21. Explain the structure and functions of Tissues with suitable diagrams.
 22. Enumerate the classification of joints with suitable illustrations.
 23. Enlist the structure and functions of cranial and spinal nerves.
 24. Discuss the structure of Heart with a neat diagram.
 25. Explain the structure of Skeletal Muscles with suitable diagrams.
- _____

S.No. 8839

22 SACPE 1

(For candidates admitted from 2022-2023 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Part III — Allied

ANATOMY AND PHYSIOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (20 marks)

Answer ALL questions.

- I. (A) Choose the correct answer : ($5 \times 1 = 5$)
 1. Anatomy is the branch of biology concerned with the study of the _____ of organisms and their parts.
 - (a) Structure
 - (b) Function
 - (c) Dislocation
 - (d) Disease
 2. _____ is usually a rigid supportive or protective structure or framework of an organism.
 - (a) Nervous
 - (b) Skeleton
 - (c) Respiratory
 - (d) Endocrine
 3. The central nervous system (CNS) is made up of the brain and _____.
 - (a) Spinal cord
 - (b) Spleen
 - (c) Cerebellum
 - (d) Cerebrum

4. Tiny air sacs the end of the bronchioles is called as _____
- (a) Trachea (b) Spleen
(c) Cerebellum (d) Alveoli

5. The term _____ is or denoting glands which secrete hormones or other products directly into the blood.
- (a) Alveoli (b) Blood vessels
(c) Endocrine (d) Muscle Spindle

- II. (B) Fill in the blank : ($5 \times 1 = 5$)

6. _____ is the scientific study of how living things function.
7. _____ number of bone are there in Human Skull.
8. PNS stands for _____ Nervous system.
9. _____ is defined as sequence of alternating contraction and relaxation of the atria and ventricles in order to pump blood throughout the body.
10. The pituitary gland is located at the base of the _____.

- III. Answer the following questions. ($5 \times 2 = 10$)

11. Write down any two functions of Epithelial tissue.
12. Write about 'Scapula'.
13. Write any two major functions of digestive system.
14. Define 'Vital Capacity'
15. Write down any two functions of Adrenal glands.

SECTION B — ($5 \times 5 = 25$)

Answer ALL the questions, choosing either (a) or (b).

16. (a) Write down the meaning of the terms Anatomy and Physiology

Or

- (b) Briefly explain the need for understanding Anatomy and Physiology Physical Education.

17. (a) Write short notes on 'Vertebral Column'.

Or

- (b) Briefly explain the classification of bones.

18. (a) Write down the functions of Pancreas.

Or

- (b) Write down the functions of Liver.