

19. (a) Discuss the functions of adrenal hormones.

Or

- (b) Write a note on embryo development.
20. (a) Illustrate the structure of brain.

Or

- (b) Write a short note on taste.

SECTION C — (3 × 10 = 30)

Answer any THREE questions.

21. Describe the composition of blood in detail.
22. Sketch the structure of heart and explain its parts.
23. Explain the structure of Kidney with diagram.
24. Explain the role of pituitary hormones in body function.
25. Elaborate the different parts of brain.
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S.No. 8571

22 SACHS 1

(For candidates admitted from 2016–2017 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Part III — Allied

HUMAN PHYSIOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (20 marks)

Answer ALL questions.

- I. (A) Choose the correct answer : (5 × 1 = 5)
1. An example of anticoagulant
- (a) Calcium (b) Vitamin C
- (c) Vitamin K (d) Heparin
2. Wind pipe is also called as
- (a) Larynx (b) Adnoid
- (c) Trachea (d) Alveoli
3. The functional unit of kidney is called as
- (a) Neuron (b) Nephron
- (c) Glomerulus (d) Medulla

4. During menstrual cycle, proliferate phase occurs during _____ days.

- (a) 1 – 4 days (b) 5 – 14 days
(c) 15 – 20 days (d) 20 – 28 days

5. An important part of inner ear that maintain equilibrium is

- (a) Cochlea (b) Vestibular
(c) Pinna (d) Cornea

(B) Fill in the blanks : (5 × 1 = 5)

6. Protection is the main function of _____ tissue.

7. The backflow of blood to heart is prevented by _____ valve.

8. _____ enzyme converts starch into maltose in mouth.

9. The serum calcium and phosphorus level is maintained by _____ hormone.

10. The part of brain that regulates the body temperature is _____.

II. Answer the following questions. (5 × 2 = 10)

11. What is blood coagulation?

12. What is Trachea?

13. Enlist the enzymes produced by Pancreas.

14. Write the functions of Oestrogen.

15. What is olfactory receptors?

SECTION B — (5 × 5 = 25)

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

16. (a) Write a note on muscle tissues.

Or

(b) Discuss the blood groups.

17. (a) How to measure the arterial blood pressure?

Or

(b) Describe the mechanism of respiration.

18. (a) Enlist the functions of skin.

Or

(b) Explain the functions of liver in metabolism.