

20. (a) Identification and treatment of parasites.

Or

- (b) Types of parasites with examples.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

21. Give a detailed note on anatomy of heart with neat labeled diagram.
22. Physiology of autonomous nervous system.
23. Brief account on the biochemistry of Fats.
24. Explain in detail about the microbiology of food borne diseases.
25. What do you mean by commonly prevalent parasites?
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S.No. 6636

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(For candidates admitted from 2022–2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Hospital Administration

BASIC BIOLOGICAL SCIENCE

Time : Three hours

Maximum : 75 marks

SECTION A — (20 marks)

Answer ALL questions.

- I. (A) Multiple choice questions. ($5 \times 1 = 5$)
1. Which of the following control breathing rate in humans?
(a) Cerebellum (b) Hypothalamus
(c) Thalamus (d) Medulla oblongata
2. Which of the following is the inner most layer of human eye?
(a) Retina (b) Choroid
(c) Sclera (d) Cornea
3. Which of the following is a part of the hindbrain?
(a) Hypothalamus (b) Cerebellum
(c) Spinal cord (d) Corpus callosum

4. Fat storing cells of vertebrates are called

- (a) Hepatocytes (b) Astrocytes
(c) Adipocytes (d) Melanocytes

5. The blood cells that protect the body from microbes and other foreign substances are

- (a) Leukocytes (b) Platelets
(c) Lymphocytes (d) Erythrocytes

(B) Fill in the blanks. (5 × 1 = 5)

6. Rh factor is an antigen situated on the surface of

7. Body's largest blood vessel is _____

8. The ratio of WBC and RBC is _____

9. In malaria, the form of plasmodia transmitted from mosquito to human is the _____

10. The pace maker of the heart _____

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

11. What are the basic vital organs?

12. Functions of digestive system.

13. Define essential amino acids.

14. Define physiology.

15. Name some enzymes and its uses.

SECTION B — (5 × 5 = 25)

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

16. (a) Write the function of kidney.

Or

(b) Anatomy of brain with neat labeled diagram.

17. (a) Explain in detail about respiratory system.

Or

(b) Different types of glands and its functions.

18. (a) Explain in detail about Hormones and its types.

Or

(b) What are the properties of enzymes?

19. (a) Classify micro-organisms with examples.

Or

(b) Short notes on food preservation.