

**2103000204020117**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (FOURTH SEMESTER)**  
**BIO SCIENCE (MICROBIOLOGY) PAPER - V**  
**HUMAN PHYSIOLOGY**

[Time: As Per Schedule]

[Max. Marks: 50]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination : **BACHELOR OF SCIENCE (FOURTH SEMESTER)**
  - b. Name of the Subject : **BIO SCIENCE (MICROBIOLOGY) HUMAN PHYSIOLOGY**
  - c. Subject Code No : **2103000204020117**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Multiple choice question. (MCQ)**

**08**

- 1) Which of the following is arranged in a single layer?
  - a. Stratified epithelium
  - b. Pseudo-stratified epithelium
  - c. Ciliated epithelium
  - d. Transitional epithelium
- 2) Which cells of areolar tissue are able to move and ingest foreign particles?
  - a. Fibroblast
  - b. Mast cells
  - c. Histocytes
  - d. All
- 3) Which of the following blood cells play an important role in blood clotting?
  - a. Thrombocytes
  - b. Neutrophils
  - c. Leucocytes
  - d. Erythrocytes
- 4) Which of the following structure is not included in blood cells?

- a. Fibrinogen
- b. Lymphocytes
- c. Basophils
- d. Erythrocytes

5) Blood pressure measurement can be classified in \_\_\_\_\_ major way(s).

- a.2
- b.5
- c.7
- d.10

6) Which of the following is involved in the final phase of blood clotting?

- a. formation of fibrin
- b. formation of prothrombin
- c. activation of blood clotting factor X
- d. None

7) \_\_\_\_\_ is a heat gain mechanism.

- a. Metabolic activity
- b. Convection
- c. Conduction
- d. All

8) Centre which regulate the body temperature are \_\_\_\_\_

- a. Heat lose centre
- b. Heat lose centre& Heat gain centre
- c. Heat gain centre
- d. none

**Q.2 [A] Answer as directed.**

**04**

1. Define: Dehydration.
2. What is normal blood pressure?
3. Enlist the various types of cartilage.
4. State the normal life span of RBC.

**Q.2 [B] Write short notes on: (Any two)**

**10**

1. Measurement of blood pressure.
2. Neuron.

3. Regulation of electrolytes.

**Q.3** Write an essay on - Connective tissue. **14**

**OR**

**Q.3** Answer the following questions. **14**

1. Write a note on - Simple epithelial tissue.

2. Describe in detail heat loss mechanism.

**Q.4** Answer any two of the following questions. **14**

1. Describe in brief composition & functions of blood plasma.

2. Write a note on - hemoglobin

3. Explain in brief coagulation process.

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