

2112H051

BACHELOR OF VOCATION
Medical Laboratory Technology
Subject: Human Physiology – Part I
Subject Code: MLT-S106
Semester: First
December 2021
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number

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SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. What is a cell made up of?
- B. Define radial pulse?
- C. Highlight the symptoms of anaemia?
- D. What is nucleus and its importance?
- E. What would happen to red blood cells if the haem group were removed?
- F. What are the tiny air sacs in the lungs called?
- G. How do you increase ventilation on a vent?
- H. Can stress cause gastrointestinal problems?
- I. Briefly explain the types of blood groups.
- J. What is reflex action?

SECTION -B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1. Why is cell the basic unit of life? What is the significance of plasma membrane?
2. What is the principle of clotting time? What is the main goal of coagulation?
3. What is cardiac cycle, explain with example? What is the longest phase of the cardiac cycle?
4. What is blood pressure and how it is related to function of heart in our body, explain?
5. What is the normal lung volumes and capacities? How do you remember them?
6. What is the difference between respiratory volumes and respiratory capacities? What is tidal volume in lungs?
7. Give the definition of immunoglobulin? What causes its deficiency? Give the major functions of immunoglobulin?
8. Name and explain the layers of the gastrointestinal tract. What are the five basic functions of the digestive system?

====END OF PAPER====