

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

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**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. Explain the functions of a cell?
- B. Explain what is radial pulse?
- C. What is saliva and where it is produced?
- D. What is nucleus and its importance?
- E. What body systems are affected by anaemia?
- F. Bring out the differences between breathing and respiration?
- G. Which immunoglobulin is present in external secretion?
- H. How many types of clotting factors are there?
- I. Briefly explain the types of blood groups.
- J. What is reflex action?

**SECTION -B (ESSAY TYPE QUESTIONS)**

**(5x5=25 Marks)**

1. What gives cells their structure and function? What is the significance of Ribosomes and Lysozomes?
2. What are the normal lung volumes and capacities? What factors affect respiratory volumes and capacities?
3. What is cardiac cycle, explain with example? What is the longest phase of the cardiac cycle?
4. What is positive Hoffman's sign? What is Hoffman's reflex?
5. What is the difference between a lung volume and a lung capacity? What is low lung and good lung capacity?
6. Explain what is elicitation of reflexes and jerks? What is abnormal reflex?
7. Give the definition of immunoglobulin? Which immunoglobulin can pass through placenta? Explain the major functions of immunoglobulin?
8. Explain the identification of blood cells by study of peripheral blood smear in detail?

**==END OF PAPER==**

