

**First Year B.Sc MLT Degree Regular/Supplementary Examinations**  
**November 2024**  
**(Anatomy and Physiology)**  
**Physiology**  
**(2016 Scheme)**

**Time: 2 Hours**

**Total Marks: 50**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay**

**(10)**

1. Describe the steps of erythropoiesis and the factors regulating it.

**(5+5)**

**Short notes**

**(5x5=25)**

2. Describe the functions of growth hormone. Add a note on acromegaly.
3. Explain the mechanisms of synaptic transmission.
4. Describe conducting system of heart with the help of a diagram.
5. Classify the White Blood Cells (WBCs). Add a note on phagocytosis.
6. Describe the O<sub>2</sub>-Hb dissociation curve.

**Answer briefly**

**(5x3=15)**

7. Functions of saliva.
8. Draw a labelled diagram of visual pathway.
9. Functions of hypothalamus.
10. Pregnancy tests.
11. Juxta-glomerular apparatus (JGA).

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