

**First Year B.Sc MLT Degree Regular/Supplementary Examinations  
March 2022**

**(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. Define cardiac output. Mention its normal value. Explain short term regulation of blood pressure. What are the factors influencing the heart rate (1+1+4+4)  
(2+5+3)

**Short notes**

**(5x5=25)**

2. Explain chemical regulation of respiration .Name two lung volumes
3. Explain the refractive errors of eye and how are they corrected.
4. Explain stages of erythropoiesis and factors regulating it.
5. Explain the stages of deglutition. Explain the second stage.
6. Explain the functions of growth hormone. What is acromegaly

**Answer briefly**

**(5x3=15)**

7. Lumbar puncture.
8. Waves of ECG.
9. Reflex action.
10. Functions of ovaries.
11. Properties of cardiac muscle.

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