

**First Year B.Sc Medical Imaging Technology Degree Supplementary  
Examinations June 2025**

**Paper II – Physiology**

**(2023 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- *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**

**(2x15=30)**

1. Define cardiac cycle and give its the normal value. Discuss different phases of cardiac cycle
2. Explain the functions of the thyroid hormones. Add a note on hyper secretion and hypo secretion of thyroid hormones

**Short notes**

**(8x5=40)**

3. Definition, common causes and clinical significance of anemia
4. Movements of small intestine
5. Functions of placenta
6. Diffusion of gases in lungs and factors influencing it
7. Formation and functions of lymph
8. Visual pathway
9. Functions of cerebrospinal fluid
10. Reabsorption of water at the renal tubule

**Answer briefly**

**(10x3=30)**

11. List the functions of leukocytes
12. Functions of the hypothalamus
13. List the types of hypoxia with examples
14. Pharyngeal phase of deglutition
15. Erythroblastosis fetalis
16. Differences between UMN and LMN lesions
17. Micturition reflex
18. Define shock and list the types of shock with examples.
19. Functions of saliva
20. Ovulation.

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