

**First Year B.Sc (MRT) Degree Regular/Supplementary Examinations**  
**March 2025**  
**Physiology**

**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*

**Essays**

**(2x20=40)**

1. Name the hormones secreted from different cells of Islets of Langerhans. Explain the functions of Insulin. Add a note on Diabetes mellitus.
2. Define anaemia. How will you classify anaemia. Write a note on iron deficiency anaemia.

**Short notes:**

**(8x5=40)**

3. Functions of middle ear
4. Features of pulmonary circulation
5. Mechanism of HCl secretion from stomach
6. Pain pathway
7. Functions of oestrogen
8. Baroreceptor mechanism for blood pressure regulation
9. Carbon dioxide transport in blood
10. Conducting system of heart

**Answer briefly:**

**(10x2=20)**

11. Classification of white blood cells
12. Name the hormones secreted from pituitary
13. Name the muscles of expiration
14. Functions of stomach
15. Reflex arc
16. Menopause
17. Functions of cerebellum
18. Movements of small intestine
19. Hormones secreted from adrenal cortex
20. Pancytopenia

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