

**First Year B.Sc (MRT) Degree Supplementary Examinations  
September 2023  
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. Define cardiac cycle giving the normal value. Discuss different phases of cardiac cycle with neat labeled diagrams.
2. Name the hormones of anterior pituitary. Explain the functions of growth hormone. Add a note on hypersecretion and hyposecretion of growth hormone.

**Short notes:**

**(8x5=40)**

3. Phases of Deglutition
4. Actions of thyroid hormones
5. Endometrial changes during different phases of the menstrual cycle with its hormonal basis
6. Stages of formation of red blood cell. Add a note on factors affecting erythropoiesis
7. Blood pressure and its regulation
8. Formation and functions of Cerebrospinal Fluid (CSF)
9. Lung surfactant
10. Lymph and its functions

**Answer briefly:**

**(10x2=20)**

11. Thrombocytopenia
12. Reflex arc
13. Conducting system of heart
14. Cushing's syndrome
15. Functions of Pancreatic juice
16. Secondary sexual characters in female
17. Pupillary light reflex
18. Pyramidal tract
19. Blood Coagulation factors
20. Muscles of respiration

\*\*\*\*\*