

**First Year B.Sc (MRT) Degree Supplementary Examinations
September 2022
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 and classify shock. Discuss the patho-physiology, clinical features, detection and management of Anaphylactic shock
2. Explain the biosynthesis and functions of the thyroid hormones. Add a note on hyper secretion and hypo secretion of thyroid hormones

Short notes:

(8x5=40)

3. Phases of gastric juice secretion and its regulation
4. Definition, common causes and clinical significance of anemia
5. Mechanism of ventilation
6. Actions of cortisol
7. Formation of lymph
8. Pulmonary circulation and systemic circulation
9. Physiological changes during pregnancy
10. Refractive errors of eye and its correction

Answer briefly:

(10x2=20)

11. Functions of platelets
12. Infertility in males
13. Gigantism
14. Leucocytosis
15. Factors affecting diffusion of gases in lungs
16. Properties of cerebrospinal fluid
17. Arterial pulse
18. Functions of middle ear
19. Absorption of carbohydrates
20. Functions of Hypothalamus
