

First Year B.Sc Anaesthesia Technology Degree Regular Examinations
November 2025
Paper II – Physiology
(2024 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*

Essays**(2x10=20)**

1. Describe neuromuscular junction with the help of a diagram. Explain the steps of neuromuscular transmission. (5+5)
2. Define Blood Pressure. Mention its normal value. Explain the regulation of blood pressure. (2+1+7)

Short Notes**(10x5=50)**

3. Explain the phases and regulation of gastric secretion.
4. Actions of hormones of posterior pituitary.
5. Refractive errors of eye.
6. Chemical regulation of respiration.
7. Production, circulation and functions of CSF.
8. Role of proximal tubule in glucose handling.
9. Classify WBCs. Enumerate their functions.
10. Endometrial changes during a menstrual cycle and its hormonal regulation.
11. Homeostasis.
12. Types and functions of plasma proteins.

Answer Briefly**(10x3=30)**

13. Autonomic nervous system.
14. Water reabsorption in kidneys.
15. Spermatogenesis.
16. Diffusion across cell membrane.
17. Insulin.
18. EEG.
19. Carbon di-oxide transport in blood.
20. Functions of blood.
21. Peristalsis.
22. Micturition.
