

**Q.P. CODE: 112010**

**Reg. No: .....**

**First Year B.Sc Nursing Degree Supplementary Examinations July 2025**

**Physiology**  
**(2016 Scheme)**

**Time: 3 Hrs**

**Max. Marks: 75**

- *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 diagrams wherever necessary*

**Essay: (12)**

1. Describe the pyramidal tract with the help of a diagram. Add a note on functions of cerebellum. (7+2+3)

**Short essays: (2x7=14)**

2. Define glomerular filtration rate. What is the normal value in an adult male. What are the factors affecting glomerular filtration rate. (2+1+4)
3. Discuss the neural regulation of respiration.

**Short notes: (5x5=25)**

4. Intrinsic pathway of blood coagulation.
5. Cardiac output.
6. Sodium reabsorption.
7. Ovarian cycle.
8. Actions of insulin.

**Answer briefly: (3x4=12)**

9. Cell mediated immunity.
10. Visual pathway.
11. Regulation of gastric juice.

**Differentiate between: (3x4=12)**

12. First and Third heart sounds.
13. Red blood cell and White blood cell.
14. Actions of parathyroid hormone and Calcitonin.

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