

**Q.P. CODE: 112010**

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

**First Year B.Sc Nursing Degree Supplementary Examinations  
October 2024**

**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. Define Landsteiner's law. Name the agglutinogens and agglutinins present in different blood groups of 'ABO' and 'Rh' systems. Add a note on Rh incompatibility. (2+5+5)

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

2. Describe different types of movements of small intestine. Mention any two functions of large intestine. (5+2)
3. List the sensations carried by the dorsal column pathway. Draw and label the pain (fast pain) pathway (2+5)

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

4. Uterine changes during menstrual cycle
5. Actions of posterior pituitary hormones
6. Parts and functions of middle ear
7. Carbon dioxide transport
8. Describe the factors regulating cardiac output

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

9. Functions of hypothalamus
10. Excitation – contraction coupling in skeletal muscles
11. Factors influencing Glomerular Filtration Rate (GFR)

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

12. Humoral immunity and cell mediated immunity
13. Cortical and juxtamedullary nephrons
14. Simple diffusion and facilitated diffusion

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