

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
