



**First Year B.Sc Nursing Degree Supplementary Examinations
May (November), 2020**

**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 glomerular filtration rate. Give its normal value. Explain in detail the factors influencing glomerular filtration rate. Add a note on glucose reabsorption by the kidney. (1+1+6+4)

Short essays: (2x7=14)

2. Define reflex. Explain reflex arc with the help of a diagram. Explain stretch reflex (1+3+3)
3. Define cardiac cycle. Give its normal value. Explain the mechanical events occurring in cardiac cycle (1+1+5)

Short notes: (5x5=25)

4. Refractory errors of eye
5. Functions of plasma proteins
6. Functions of thyroid hormone
7. Haemostasis
8. Deglutition

Answer briefly: (3x4=12)

9. Functions of saliva
10. Sarcomere
11. Corpus luteum

Differentiate between: (3x4=12)

12. Neutrophil and lymphocyte
13. Skeletal muscle and smooth muscle
14. Extracellular fluid and intracellular fluid

