

**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