

**First Year B.Sc Nursing Degree Regular/Supplementary Examinations**  
**October 2019**

**Physiology**

**(2016 Scheme)**

**Time: 3 Hrs**

**Max. Marks: 75**

- Answer all questions
- Draw diagram wherever necessary

**Essay:**

**(12)**

1. Define cardiac cycle. Discuss the different phases of cardiac cycle. Add a note on heart sounds. (2+8+2)

**Short essays:**

**(2x7=14)**

2. Draw the normal oxygen – haemoglobin dissociation curve (ODC). What are the factors causing shift of ODC. (2+5)
3. Define glomerular filtration rate(GFR). What are the factors influencing it. (2+5)

**Short notes:**

**(5x5=25)**

4. Active transport
5. Structure and functions of platelets
6. Actions of insulin
7. Functions of skin
8. Visual pathway

**Answer briefly:**

**(3x4=12)**

9. Reflex arc
10. What is cyanosis. What are the types of cyanosis.
11. Micturition reflex

**Differentiate between:**

**(3x4=12)**

12. Homeostasis and hemostasis
13. Resting membrane potential and action potential
14. Rh incompatibility and ABO incompatibility

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