



**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
