

First Year B.Sc Nursing Degree Examinations October 2018**Physiology****(2016 Scheme)****Time: 3 Hrs****Max. Marks: 75**

- Answer all questions
- Draw diagram wherever necessary

Essay:**(12)**

1. Define haemostasis and mention the steps in haemostasis. Describe the intrinsic and extrinsic coagulation pathways. Add a note on anti-coagulants. (4+4+4)

Short essays:**(2x7=14)**

2. Describe the spinothalamic and pyramidal tract pathways. (3+4)
3. Define cardiac output and mention the normal value. Describe the factors influencing cardiac output. (3+4)

Short notes:**(5x5=25)**

4. Conduction system of the heart.
5. Neuromuscular junction.
6. Mechanism of hearing.
7. Micturition reflex.
8. Neural regulation of respiration.

Answer briefly:**(3x4=12)**

9. Functions of bile.
10. Active transport.
11. Functions of testosterone

Differentiate between:**(3x4=12)**

12. Innate and acquired immunity
13. Parathyroid hormone and calcitonin.
14. Actions of sympathetic and parasympathetic nervous system
