

**Q.P. CODE: 112010****Reg. No: .....****First Year B.Sc Nursing Degree Examinations, November 2017****Physiology****(2016 Scheme)****Time: 3 Hrs****Max. Marks: 75**

- Answer all questions
- Draw diagram wherever necessary

**Essay: (12)**

1. Define erythropoiesis. Describe the different stages of erythropoiesis. (2+10)

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

2. Describe the physiological events in skeletal muscle contraction.  
3. Define synapse. What are the properties of synapse

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

4. Coronary circulation  
5. Carbon-di-oxide (CO<sub>2</sub>) transport  
6. Hormones of posterior pituitary and their functions  
7. Stages of spermatogenesis  
8. Types and functions of immunoglobulins

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

9. Composition and functions of saliva  
10. Color blindness  
11. Neurotransmitters

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

12. Proliferative phase and secretory phase of menstrual cycle  
13. Active transport and passive transport  
14. Skeletal muscle and smooth muscle

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