

Q.P. CODE: 112010**Reg. No:****First Year B.Sc Nursing Degree Supplementary Examinations
April 2019****Physiology
(2016 Scheme)****Time: 3 Hrs****Max. Marks: 75**

- Answer all questions
- Draw diagram wherever necessary

Essay: (12)

1. Describe the transport of oxygen and carbon-dioxide in the blood. Add a note on Oxygen Dissociation Curve. (4+4+4)

Short essays: (2x7=14)

2. Describe the different types of blood groups. Add a note on Rh incompatibility. (4+3)
3. Define cardiac cycle and mention the duration. Describe the various events in the cardiac cycle. (3+4)

Short notes: (5x5=25)

4. Describe the waves of ECG and mention its uses.
5. Excitation-contraction coupling.
6. Composition and functions of cerebrospinal fluid.
7. Describe the mechanism of inspiration and expiration.
8. Visual pathway.

Answer briefly: (3x4=12)

9. Hormones regulating pancreatic juice secretion.
10. Neuro-endocrine reflex.
11. Spermatogenesis

Differentiate between: (3x4=12)

12. Diffusion and osmosis.
13. Counter-current exchanger and counter-current multiplier.
14. First and second heart sound
