

First Year BPT Degree Supplementary Examinations February 2019

**Physiology
(2010 Scheme)**

Time : 3 hrs

Max marks : 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(2x10=20)

1. Define cardiac cycle and it's normal values.Explain it's events in detail
(1+3+6)
2. Name the respiratory centers. Describe the nervous regulation of respiration. (1+6+3)

Short Notes:

(10x5=50)

3. Name the properties of synapse. Explain any two in detail
4. Referred pain
5. Draw,label and explain pain pathway.
6. Functions of hypothalamus.
7. Lung volumes and capacities
8. Draw a labelled diagram of ECG by limb lead II. Add a note on P-R interval
9. Oxygen dissociation curve
- 10.Explain with a diagram neuromuscular transmission
- 11.VO2 max
- 12.Difference between skeletal and cardiac muscle

Answer briefly:

(10x3=30)

- 13.Wallerian degeneration
- 14.Female contraceptive methods
- 15.Refractory errors of eye
- 16.Difference between diabetes mellitus & diabetes insipidus
- 17.Cardiovascular changes during exercise
- 18.Differences between facilitated diffusion and active transport
- 19.Anticoagulants
- 20.Parkinsonism.
- 21.Surfactant
- 22.Spermatogenesis