

**Q.P. Code: 122014**

**Reg. No.:.....**

**First Year BPT Degree Supplementary Examinations February 2020**

**Paper II – Physiology**

**(2016 Scheme)**

**Time: 3 hrs**

**Max marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x15=30)**

1. Name the respiratory centers in the brain. Explain the neural regulation of respiration. Add a note on hypoxia
2. Describe in detail the steps involved in neuromuscular transmission with a neat diagram. Add a note on myasthenia gravis

**Short Essays**

**(4x10=40)**

3. Define cardiac output. Explain the factors affecting cardiac output
4. Name the ascending tracts. Discuss the spinothalamic tracts with neat and labelled diagram"
5. Discuss the lung volumes & Lung Capacities giving their normal values. Draw a neat and labelled spirogram
6. Define blood pressure. Describe in detail the short term regulation of blood pressure.

**Short Answers**

**(10x3=30)**

7. List any three functions of hypothalamus
8. Explain any two properties of synapse
9. Define cardiac cycle. Name the different events of cardiac cycle
10. Describe micturition reflex
11. List the cardiovascular changes during exercise
12. Describe the structure of sarcomere
13. Draw a neat diagram of reflex arc. Name its components
14. Enumerate the functions of placenta
15. Explain any three functions of middle ear
16. List the clinical features of Parkinson's disease and its physiological basis

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