

Q.P. Code: 122014

Reg. No.:.....

**First Year BPT Degree Supplementary Examinations February 2019****Paper II – Physiology  
(2016 Scheme)****Time: 3 hrs****Max marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays****(2x15=30)**

1. Classify the types of pain. Explain in detail the pain pathways with a neat diagram. Add a note on endogenous pain inhibition.
2. Where are the respiratory regulatory centers located. Explain in detail neural regulation of respiration with a neat diagram. Add a note on periodic breathing.

**Short Essays****(4x10=40)**

3. Write ten differences between skeletal, smooth and cardiac muscles
4. Explain cardiovascular and respiratory changes during exercise
5. Explain neuromuscular junction with a neat labelled diagram
6. Explain in detail the pressure and volume changes in the ventricles in various phases of cardiac cycle with a neat diagram.

**Short Answers****(10x3=30)**

7. Vital capacity
8. Cushing's syndrome
9. Chloride shift
10. Define shock and list the types of shock with examples.
11. Name the plasma proteins. Give the functions of plasma proteins.
12. Pharyngeal phase of deglutition
13. Functions of Sertoli cells
14. Trace the taste pathway with a neat diagram
15. Functions of cerebellum
16. Differences between REM and NREM sleep

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