

Q.P.Code: 112014

Reg. No.:.....

**First Year BPT Degree Supplementary Examinations August 2017**

**PHYSIOLOGY**  
**(2012 - Scheme)**

Time : 3 hrs

Max marks : 100

- Answer all questions
- Draw diagrams wherever necessary

**Essays:** (2x14=28)

1. Define cardiac output and mention its normal values. Explain the factors regulating it
2. Effect of exercise on Respiratory system

**Short notes:** (4x8=32)

3. Surfactant and compliance of lungs
4. List the stages of erythropoiesis and explain the factors affecting the same
5. Micturition reflex
6. Explain 'four' properties of synapse

**Answer briefly:** (10x4=40)

7. List the "four" functions of hypothalamus and explain any one
8. Erythrocyte sedimentation rate
9. Define isotonic and isometric contraction. Give an example for each
10. Give the functions of liver
11. List "two" features of segmentation movement of small intestine
12. Give "three" clinical features of myxoedema
13. Draw a neat labelled diagram of neuromuscular junction
14. List "three" complications of mismatched blood transfusion
15. Enumerate physiological actions of insulin on metabolism
16. Tests of ovulation

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