



First Year BPT Degree Supplementary Examinations , September 2015

## (2010 scheme)

### PHYSIOLOGY

Time : 3 hrs

Max marks : 100

- Answer all questions
- Draw diagrams wherever necessary

**Essays:** (2x10=20)

1. Draw a neat labeled graph to show lung volumes & capacities and mention their normal values. Define vital capacity and add a note on its significance (6+4=10)
2. Draw a neat labeled diagram of the cortical spinal tract. Mention features of lesions at the level of internal capsule. Tabulate four differences between upper motor neuron and lower motor neuron lesion (2+4+2=10)

**Short notes:** (10x5=50)

3. ABO blood group system
4. Functions of middle ear
5. Functions of saliva
6. Monophasic action potential.
7. Intestinal movements
8. Sodium transport in the renal tubules
9. ovarian changes during menstruation
10. Nerve supply to urinary bladder and add a note on types of abnormal bladder.
11. Actions of insulin.
12. Tabulate differences between skeletal and cardiac muscles

**Answer briefly:** (10x3=30)

13. Saltatory conduction
14. Actions of gonadotropic hormones
15. Milk ejection reflex
16. Sarcomere
17. Glaucoma
18. Acromegaly
19. Myasthenia gravis
20. Define muscle fatigue and mention the causes of fatigue
21. Phagocytosis
22. Enumerate the changes occur when one is exposed to cold climate

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