



(LL 4253)

**AUGUST 2017**

Sub Code: 4253

**B.PHARM. DEGREE EXAMINATION  
FIRST YEAR  
PAPER III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

*Q.P. Code : 564253*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:** (2 x 20 = 40)

1. Classify the hormones of pituitary gland. Give the physiological functions and disorders of growth hormone.
2. a) Draw the cross structure of human brain and label its parts.  
b) Give the functions of different parts of the cerebellum with a neat diagram.

**II. Write notes on:** (8 x 5 = 40)

1. Explain the action potential of a skeletal muscle.
2. Classify tissues with example.
3. Write a note on hip joint.
4. Name the clotting factors.
5. What are lymph nodes? Where they are present? Give its physiological function.
6. Give the functions and composition of saliva.
7. What is spermatogenesis? Give its regulation.
8. Explain pulmonary circulation.

**III. Short answers on:** (10 x 2 = 20)

1. What is peristaltic movement?
2. What are cyanosis and mountain sickness?
3. What are the hormones released by kidney?
4. What is GFR? Give its normal value.
5. Name the preganglionic and postganglionic neurotransmitters of parasympathetic system.
6. Name the auditory and vision receptors.
7. Name the causative organism and mode of transmission of chicken pox.
8. What are water bone diseases? Give example.
9. How pH affects oxygen transport?
10. What is intrinsic respiration?

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