

**First Year (New) Pharmacy**  
**HUMAN ANATOMY AND PHYSIOLOGY**  
 (105)

Time : Three Hours

Maximum Marks : 80

- Note :** a) Attempt total six questions. (10+10+10+10+10+10) This is compulsory.  
 From the remaining questions attempt any five.  
 ii) Illustrate your answer with neat sketches wherever necessary.

1. Attempt any five questions. 10
  - a) Name the synovial joints.
  - b) Name the fixed joints.
  - c) Explain gout.
  - d) Classify tissues.
  - e) ~~What is myopia?~~
  - f) ~~Name the artery supplying blood to the brain.~~
2. Attempt any two. 14
  - a) Draw a well labelled diagram of neuron cell.
  - b) Describe myopathy and cramps.
  - c) Give the functions of mitochondria and Golgi bodies.
3. Attempt any two. 14
  - a) Define term blood pressure, cardiac output and cardiac cycle.
  - b) Write the functions of Lymphatic system.
  - c) Write a note on Gall-Bladder.
4. Attempt any two. 14
  - a) Briefly describe the physiology of digestion.
  - b) Explain
    - i) Thrombosis
    - ii) Heart block
  - c) Draw the internal structure of cerebrum.

5. Attempt any two. 14
  - a) Enlist the name of endocrine glands.
  - b) Write structure and functions of ovary.
  - c) Write about Hepatitis, gastric ulcer and Hyperacidity.
6. Attempt any two. 14
  - a) Draw a well labelled diagram of Human excretory system.
  - b) Explain
    - i) Phagocytosis
    - ii) Hypothyroidism
  - c) Give the functions
    - i) Vitamin C
    - ii) Vitamin D
7. Attempt any two. 14
  - a) What is Reflex action?
  - b) ~~Write the functions of Ocular muscles.~~
  - c) Draw the internal structure of ear.
8. Attempt any two : 14
  - a) Draw the structure of brain.
  - b) Discuss structure and functions of Liver.
  - c) Discuss the Physiology of Urine formation.