

B.P. 1st Sem. (ASTU) ← 28/4/15

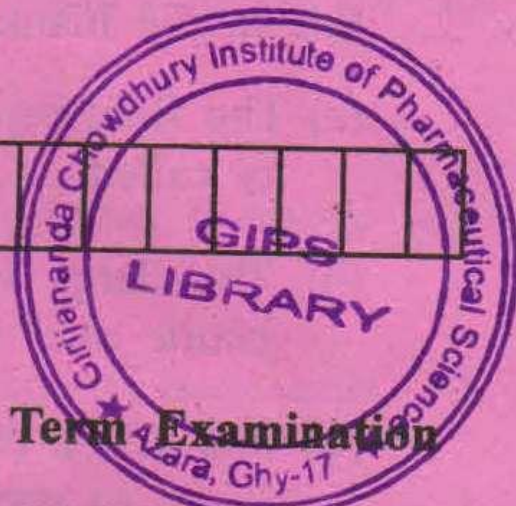
Total No. of printed pages = 5

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Roll No. of candidate

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2015



B. Pharm 1st Semester End Term Examination

HUMAN ANATOMY AND PHYSIOLOGY-I

Full Marks – 100 Pass Marks – 35 Time – Three hours

The figures in the margin indicate full marks for the questions.

GROUP - A

Answer *all* the questions.

1. Answer the following questions : $1 \times 3 = 3$
 - (a) Which component of cell is known as suicidal bag ?
 - (b) Name the longest bone of human body.
 - (c) Name the instrument used to determine total count of RBC and WBC.

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2. Fill in the blanks of the following : $1 \times 3 = 3$

(a) The fluid separated out by retraction of clot is called

(b) Two large lymphatic ducts are *right lymphatic duct* and

(c) One of the function of basophil is to secrete to prevent intravascular clotting.

3. Choose the correct answer of the following questions : $1 \times 3 = 3$

(a) Skeletal muscle fibres are : (striated / branched / involuntary / none of these).

(b) The life span of human RBC is about : (30 days / 120 days / 180 days)

(c) Length of normal cardiac cycle is about : (0.08 sec / 0.8 sec / 8.0 sec).

4. Write true or false to the following questions : $1 \times 3 = 3$

(a) The function of ligaments is to join bone to skin.

(b) A movement which drawn away the limb from the medial axis of the body is known as abduction.

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(2)

(c) Glial cells are the constituent of nervous tissue.

5. Can lymph undergo coagulation ? Justify your answer. 3

6. Name the different varieties of bone cells. 3

7. Explain *all or none law*. 3

8. Why does blood pressure rise in old age ? 3

9. Name the muscles of the front of arm and shoulder. 3

10. Draw a labelled diagram of synovial joint (simple type). 3

GROUP - B

Answer any *eight* questions.

11. Discuss the different types of cartilages. 5

12. Briefly discuss the different factors influencing blood pressure. 5

13. Write a short note on disorder of joints. 5

14. Write a brief note on ABO and Rh grouping of blood. 5

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15. Describe the structure of a typical bone with diagram. 5
16. Write a short note on arteriosclerosis. 5
17. Distinguish between axial and appendicular skeleton. 5
18. What is membranous ossification ? Draw and label a knee joint. 1+4=5
19. Mention the number and causes of heart sound. 5
20. Differentiate between male and female pelvis. 5

GROUP – C

Answer any *three* questions.

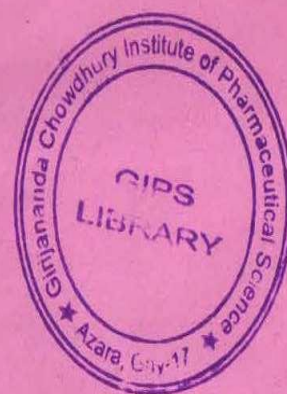
21. What is cardiac cycle ? Discuss the various events of cardiac cycle with a neat diagram. 10
22. (a) Describe the structure of cell membrane using fluid mosaic model.
- (b) Briefly discuss the cytoplasmic inclusions. 5+5=10

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23. (a) Schematically represent the mechanism of blood coagulation.
- (b) Write a short account on the role of lymphocytes in our immune system. 5+5=10
24. Classify different types of joints with examples. 10
25. Discuss the structure and functions of skeletal muscles. 10



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(5)

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