

Paper Id:

150101

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**B. PHARM**  
**(SEM- I) THEORY EXAMINATION 2019-20**  
**HUMAN ANATOMY AND PHYSIOLOGY-I**

*Time: 3 Hours**Total Marks: 75*

**Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt *all* questions in brief.**

**10 x 2 = 20**

- a. Define Sagittal & Coronal plane.
- b. Write the function of Ribosome.
- c. Define Osteoblast & Osteocalst.
- d. Draw a well labeled diagram of Cell.
- e. What is Catabolism and Anabolism?
- f. Write about the two main function of Skin.
- g. Write the name of pigment present in Rod and Cone cell.
- h. Name the bones present in the Ear.
- i. Write a short note regulation of blood pressure.
- j. Define Optic disc.

**SECTION B**

**2. Attempt any *two* parts of the following:**

**2 x 10 = 20**

- a. Classify Skeletal system & discuss about the structure and functions of vertebral column.
- b. Draw a neat labeled diagram of Heart. Explain in detail Cardiac cycle.
- c. Define Cell division. Discuss about the somatic cell division in details.

**SECTION C**

**3. Attempt any *five* parts of the following:**

**5 x 7 = 35**

- a. Write about the structure and function of Plasma Membrane.
- b. Write a note on Erythropoiesis.
- c. Write about the structure and function of Long bone.
- d. Discuss about the mechanism and physiology of hearing.
- e. Write a note on disorders related to heart.
- f. Discuss in detail about lymph circulation and functions of lymphatic system.
- g. Describe the mechanism of Blood Coagulation.