

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]  
(2064)

14773

**B. Pharmacy 2nd Semester Examination**  
**Anatomy Physiology & Health Education (O.S.)**  
**HBP-110**

**Time : 3 Hours**

**Max. Marks : 80**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Candidates are required to attempt only five questions in all selecting one question from each of the sections A, B, C and D of the question paper and all the subparts of the questions in Section E.

**SECTION - A**

1. Define the anatomical planes and sections and the directional terms used to describe the human body. (16)
2. Describe the structure and functions of a cell. (16)

**SECTION - B**

3. Describe the structure, composition and functions of the bone. (16)
4. Describe the physiological properties of skeletal muscles. (16)

**SECTION - C**

5. Describe the blood groups and their significance. (16)
6. Describe the functions of the spleen. (16)

14773/450

[P.T.O.]

**SECTION - D**

7. Describe the 'cardiac cycle'. (16)
8. Define the blood pressure and its regulations. (16)

**SECTION - E**

9. Choose the best answer to the following questions: (16)
- (a) The muscle tissue that forms the bulk of the wall of the heart is–
- (a) Skeletal muscle
  - (b) Smooth muscle
  - (c) Cardiac muscle
  - (d) Involuntary, non striated muscle.
  - (e) Striated, voluntary muscle.
- (b) A slightly movable joint is a–
- (a) synarthrosis
  - (b) amphiarthrosis
  - (c) diarthrosis
  - (d) suture
  - (e) synostosis
- (c) The main vessels that permit the exchange of nutrients and wastes between the blood and tissue cells through interstitial spaces are–
- (a) Arteries
  - (b) Arterioles

- (c) Capillaries
  - (d) Venules
  - (e) Veins
- (d) Which of the following factors regulate stroke volume–
- (a) preload
  - (b) contractility
  - (c) extensibility
  - (d) After load
  - (e) Relaxation.