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)

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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) amphiathrosis
       (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.