

[Total No. of Questions - 7] [Total No. of Printed Pages - 2]
(2125)

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B. Pharmacy 1st Semester Examination
Anatomy, Physiology & Health Education (NS)
BP-113

Time : 3 Hours

Max. Marks : 70

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: Attempt any five questions.

1. (a) Mitochondria is known as the "powerhouse" of the cell. Explain it. (7)
- (b) Discuss the functions of endoplasmic reticulum, lysosomes, golgi apparatus and nucleus. (7)
2. Classify the joints of human body and discuss the anatomy and functions of knee joints. With how many bones human body skeleton is made? (14)
3. (a) Discuss the physiology of muscle contraction. (7)
- (b) Write the different disorders of skeletal muscles in brief. (7)
4. (a) Define blood, write its composition and functions. (7)
- (b) Write the significance of bleeding and clotting time. Discuss the mechanism of coagulation. (7)
5. (a) Discuss the pathophysiology of anemia. (7)
- (b) Write the composition of lymphatic secretion and discuss its role in defense mechanism of body. (7)

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6. Draw the labeled diagram of heart. Discuss the mechanism of blood circulation. Explain the electrocardiogram. (14)
7. Write short notes on any two:
 - (a) Functions of spleen.
 - (b) Cardiac cycle.
 - (c) Epithelial tissues and their Functions. (2×7=14)