

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**B.Pharm. Winter 2017-18 Examination**

**Semester: 1****Subject Code: 08101103****Subject Name: Human Anatomy, Physiology and Health Education-I****Date: 12/01/2018****Time: 10:00 am to 1:00 pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)**

1. Explain function of liver and pancreas.
2. Discuss composition and function of blood.
3. Define hypertension. Explain Internal structure of heart with neat and labeled diagram.

**Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)**

1. Classify epithelial tissue. Compare and contrast cardiac and smooth muscle tissue.
2. Discuss the different transport mechanisms across the cell membrane.
3. Write a note on renin angiotensin system.
4. Classify the joints with example. Write a note on synovial joints.
5. Define and draw the labelled diagram of neuromuscular junction.
6. Write a note on spleen.
7. What is Blood Pressure? Discuss its significance and methods of measurement.
8. Write a note on blood group.
9. Define cell. Draw and labelled diagram of cell.

**Q.3 Answer in short. (2 marks each) (20)**

1. Write a note on negative feedback system.
2. What is tissue? Classify them.
3. Define : Peptic ulcer and hepatitis
4. Explain in brief function of RBC.
5. Define lymphoma and lymphadenopathy.
6. Enumerate types of movements at joints.
7. Explain composition and function of skeleton.
8. Write about special junctional tissues of the heart.
9. Describe the process of digestion and absorption of carbohydrates in food.
10. What is function of cell membrane?