

**PARUL UNIVERSITY**  
**FACULTY OF PHYSIOTHERAPY**  
**BPT, First Internal Examination (January-2018)**

**Year: I****Subject Code:07101102****Subject Name: Human Physiology****Date: 23.01.2018****Time: 3 Hour****Total Marks: 70****Instructions:**

1. All questions are mandatory
2. Figures to the right indicate full marks.
3. Draw Diagram wherever necessary.
4. Write separate sections on separate answer sheets.

**SECTION- A**

**Q.1** Write down morphology, normal value and functions of red blood cell. Write in detail about erythropoiesis and its regulation. **(15)**

OR

**Q.1** Draw a labelled diagram of **(15)**  
1. Neuron  
2. Neuromuscular junction

Write in detail about transmission of nerve impulse across the neuromuscular junction.

**Q.2 Write Short Notes (4 out of 5) (5 Marks each) (20)**

- (a) Rh factor
- (b) Wallerian degeneration
- (c) Draw a labeled diagram of skeletal muscle action potential and write in detail about different phases.
- (d) Ventricular events in a cardiac cycle.
- (e) Draw a labeled diagram of the cell. Enumerate different types of cell organelle and write down its function.

**SECTION- B**

**Q.1** Coagulation of Blood. **(15)**

OR

**Q.1** Define blood pressure and their types. Write in detail about short-term regulation of blood pressure. **(15)**

**Q.2 Write Short Notes (4 out of 5) (5 Marks each) (20)**

- (a) ABO blood group system.
- (b) Homeostasis.
- (c) Write a short note on Immunity.
- (d) Diffusion.
- (e) Phagocytosis.