

**PARUL UNIVERSITY**  
**FACULTY OF PHYSIOTHERAPY**  
**BPT Examination November - 2019**

**Year: 1****Subject Code: 07101102****Subject Name: HUMAN PHYSIOLOGY****Date: 21/11/2019****Time: 10:00am to 01:00 pm****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** Define Neuromuscular junction with suitable diagram. Write in detail transmission of impulse through neuromuscular junction along with disorders. (15)

**OR**

**Q.1** Define Cardiac cycle .describe various volume & pressure changes during cardiac cycle. (15)

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

- (a) Cross bridge cycle
- (b) Erythropoiesis
- (c) Chemical regulation of respiration
- (d) Action potential
- (e) Short term regulation of blood pressure

**SECTION- B**

**Q.3** What is synapse? Draw a labeled diagram & describe properties of synapse. (15)

**OR**

**Q.3** Define reflex with suitable diagram. Write classification & properties of reflex. (15)

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

- (a) Posterior column ascending tracts
- (b) Functions of liver
- (c) Factors affecting GFR
- (d) Visual pathway
- (e) Functions of hypothalamus