

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**Pharm.D November-2019 Examination**

**Year: 1****Subject Code: 08207101****Subject Name: Human Anatomy & Physiology****Date: 25/11/2019****Time: 10:00 am to 01:00 pm****Total Marks: 70****Instructions**

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

**Q.1.Essay Type Questions. (any 2 out of 3) (15 Mark Each) (30)**

1. Write composition and functions of blood. Discuss blood groups and mechanism of blood clotting.
2. Draw labeled diagram of heart and write its physiology. Explain blood pressure and its regulations.
3. Classify nervous system. Explain anatomy & physiology of neurons.

**Q.2.Short Essay Type Questions. (any 4 out of 5) (5 Mark Each) (20)**

1. Discuss structure and functions of the cell.
2. What is respiration? Write its mechanism.
3. Explain formation of urine in brief.
4. Write a note on menstruation cycle.
5. Draw labeled diagram of ear. Explain its physiology.

**Q.3.Short Answers. (2 Mark Each) (20)**

1. Enumerate functions of cartilage tissue.
2. Differentiate sympathetic and parasympathetic nervous system.
3. What are the functions of Pituitary gland?
4. Enumerate methods of family planning.
5. Write the composition of lymph.
6. Write any two disorders of lymphatic system.
7. Enumerate functions of hormones released by Adrenal gland.
8. Write structure and functions of myosin filament.
9. Define tachycardia and bradycardia.
10. Write any two disorders of joints.