

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

**Year: 1****Subject Code: 08207101****Subject Name: Human Anatomy & Physiology****Date: 15/04/2019****Time: 10.00 am to 1.00 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. Explain composition and functions of blood. Discuss mechanism of blood clotting. Write any two disorders of blood clotting.
2. Write anatomy and physiology of heart. Explain electrocardiogram and cardiac cycle.
3. Define and classify nervous system. Explain anatomy and physiology of neuron.

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

1. Explain structure of cell.
2. Describe physiology of respiration.
3. Write a note on physiology of urine formation.
4. Explain physiology of menstruation.
5. Draw labeled diagram of eye. Explain physiology of vision.

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

1. Enumerate functions of muscular tissue.
2. Define any two disorders of joints.
3. What are the functions of endocrine glands?
4. Enumerate contraceptive device.
5. Define Hypoxia and Asphyxia.
6. Write functions of spleen.
7. Enumerate functions of hormones released by thyroid gland.
8. Write functions of actin and myosin filament in muscle contraction.
9. What are Cardiac arrhythmias?
10. Differentiate sympathetic & parasympathetic nervous system.