

PARUL UNIVERSITY
FACULTY OF PHARMACY
Pharm. D October-2018- Examination

Year: 1**Subject Code: 08207101****Subject Name: Human anatomy and physiology****Date: 22/10/2018****Time: 10:00am 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. Draw labeled diagram of heart and explain cardiac cycle and heart sounds in detail
2. Explain cell cycle and describe mitosis and meiosis separately
3. Define Hormone, and classify them. Enlist hormones of pituitary gland and describe each

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

1. Write down difference between sympathetic division and parasympathetic division of ANS
2. Draw labelled diagram of human eye.
3. Write a short note on lung volumes and lung capacities.
4. Explain female reproductive cycle in detail.
5. Write down extrinsic and intrinsic pathways of blood clotting.

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

1. Draw labeled diagram of nephron
2. Enlist names of cranial nerves
3. Explain physiology of muscle contraction in brief
4. Enlist bones of skull.
5. Write down composition and function of pancreatic juice.
6. Write down flow chart of Renin angiotensin aldosterone system.
7. Define the terms:- (i) Superior (ii) Lateral
8. Enlist cell junctions and describe each in brief
9. Explain ABO blood groups
10. Write down composition and circulation of cerebrospinal fluid.