

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF HOMOEOPATHY**  
**BHMS, October 2018 Examination**

**Year: 1**

**Subject Code: 04101104**

**Subject Name: Physiology & Biochemistry Paper-II**

**Date: 25/10/2018**

**Time: 2:00 pm to 5:00 pm**

**Total Marks: 100**

**Instructions:**

1. Attempt all questions from each section
2. Figures to the right indicate full.
3. Make suitable assumptions wherever necessary.
4. Write section-A, section-B on separate answer sheets.
5. Draw diagrams wherever necessary.

**SECTION: A**

**Q.1** Enumerate different descending tracts. Describe in detail origin, course and termination of pyramidal tract **(15)**

**Or**

**Q.1** Describe regulation of salivary secretion, composition and functions of saliva. **(15)**

**Q.2** Describe deglutition in detail. **(15)**

**Or**

**Q.2 (a)** functions of hypothalamus **(08)**

**Q.2 (b)** functions of bile **(07)**

**Q.3 Write short notes (3 out of five)** **(15)**

1. Vomiting
2. Movements of small intestine
3. Errors of refraction
4. Properties of synapse
5. CSF

**Q.4 Write answer** **(05)**

1. Name enzymes of pancreatic juice.
2. What is night blindness?
3. Name the hormones of GIT.
4. Name two functions of cerebellum.
5. Define neuron.

**SECTION: B**

**Q.1** Describe synthesis, regulation and functions of thyroxine **(15)**

**Or**

**Q.1** Describe stages and regulation of spermatogenesis **(15)**

**Q.2** Describe physiology of lactation **(15)**

**Or**

**Q.2 (a)** functions of growth hormone **(08)**

**Q.2 (b)** functions of placenta **(07)**

**Q.3 Write short notes (3 out of five)** **(15)**

1. BMR
2. Vitamin B12
3. Hormones of posterior pituitary
4. Ovulation
5. TCA cycle

**Q.4 Write answer** **(05)**

1. Name hormone of parathyroid gland.
2. What are essential amino acids?
3. Define enzymes.
4. Name fat soluble vitamins.
5. What are phospholipids?