

PARUL UNIVERSITY
FACULTY OF HOMOEOPATHY
BHMS, September 2019 Examination

Year: 1

Date: 19/09/2019

Subject Code: 04101104

Time: 2.00 pm to 5.00 pm

Subject Name: Physiology - Paper II

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** Describe the structure and function of synapse. Explain their different properties in detail. (15)
- OR**
- Describe composition, functions & regulation of pancreatic juice. (15)
- Q:2** Give an account of composition, formation, and functions of bile. (15)
- OR**
- Q:2** a) Functions of hypothalamus (08)
- b) Describe the digestion and absorption of protein. (07)
- Q:3** **Write Short notes (3 out of Five)** (15)
1. Membrane potential
 2. Cerebrospinal fluid
 3. Movements of large intestine.
 4. Errors of refraction
 5. Organ of Corti.
- Q:4** **Write Answer** (05)
1. Define neuron
 2. Normal Volume of CSF
 3. Define Steatorrhea
 4. Hypermetropia
 5. Myopia

SECTION: B

- Q:1** Enumerate the hormones secreted by anterior pituitary and describe functions of growth hormone (15)
- OR**
- Describe the physiology of menstrual cycle (15)
- Q:2** Describe role of parathyroid hormone in regulating serum calcium levels. (15)
- OR**
- Q:2** a) Describe the physiology of estrogens (08)
- b) Describe structure and functions of adrenal medulla (07)
- Q:3** **Write Short notes (3 out of Five)** (15)
1. Functions of placenta
 2. Gigantism
 3. Vitamin C
 4. Kerb's Cycle
 5. Essential amino acids
- Q:4** **Write Answer** (05)
1. Acromegaly
 2. Function of seminal fluid
 3. Which vitamin is necessary for regulation of calcium level in body?
 4. How many ATP are form after complete oxidation of one glucose molecule?
 5. Define first-class protein.