

**PARUL UNIVERSITY**  
**FACULTY OF MEDICAL SCIENCE & RESEARCH**  
**M.B.B.S Supplementary Examination September - 2017**

**Year: 1****Date: 26/09/2017****Subject Code: 19100104****Time: 10:00 am to 12:30 pm****Subject Name: Physiology Paper- II****Total Marks: 50****Instructions:**

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

**SECTION – A**

- Q.1** Explain the functions of cerebellum in detail. Enumerate the clinical features of cerebellar dysfunction. **(10)**
- Q.2 Discuss on: (any three)** **(15)**
- (a) Accommodation reflex
  - (b) Mechanism of heat gain
  - (c) Phases of menstrual cycle
  - (d) Myaesthesia gravis

**SECTION – B**

- Q.1 Write short notes on: (any two)** **(08)**
- (a) Facilitated diffusion
  - (b) Rhodopsin cycle
  - (c) Properties of Receptors
- Q.2 Write briefly on: (any four)** **(12)**
- (a) Diabetes mellitus
  - (b) Deafness
  - (c) ADH
  - (d) CSF
  - (e) Stretch reflex
- Q.3 Answer in one word / MCQ** **(05)**
1.  $T_3$  is \_\_\_\_\_ times more effective than  $T_4$ 
    - (a) Two
    - (b) Four
    - (c) Six
    - (d) Eight
  2. The area of brain responsible for higher I.Q. function is
    - (a) Motor speech area
    - (b) Primary motor area
    - (c) Primary sensory area
    - (d) Wernicke's area
  3. The term myopia means
    - (a) Difficulty in focusing far object
    - (b) Difficulty in focusing near object
    - (c) Failure of accommodation of eye
    - (d) Eyes with normal vision
  4. Main nutritional supply for the spermatozoa is
    - (a) Glucose
    - (b) Fructose
    - (c) Lactose
    - (d) Galactose
  5. The structural and functional unit of a muscle
    - (a) Sarcolemma
    - (b) Sarcoplasm
    - (c) Sarcomere
    - (d) Motor end plate