



**PPA-M20174**

Seat No. \_\_\_\_\_

**First Year M. B. B. S. Examination**

**November / December - 2018**

**Physiology : Paper - II**

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Write answers of each section in separate answer books.  
(2) Draw necessary diagrams.  
(3) Illegible writing will not fetch any marks.  
(4) Figures to the right indicates marks of that question.

**SECTION – I**

**1** Enumerate various tactile receptors. Describe Dorsal-column 8  
medial lemniscus system in detail.

**OR**

**1** Describe functions of basal ganglia and write note on 8  
parkinsonism.

**2** Write short notes : 8

(a) Vesicular transport

**OR**

(a) Membrane potential

(b) Functions of Kidney

**OR**

(b) Juxtaglomerular apparatus

- 3 (a) Write note on myasthenia gravis, Eaton Lambert syndrome and rigor mortis. 5
- (b) Explain in 2-3 sentences : 4
- (1) Patient suffering from chronic renal failure also develop anemia.
  - (2) Normally proteins are absent in urine.
  - (3)  $\text{Na}^+ - \text{K}^+$  pump is an electrogenic pump.
  - (4) Patient suffering from chronic pain has difficulty in sleeping.

## SECTION - II

- 4 Describe functions, mechanism of secretion and regulation of Insulin secretion. 8

OR

- 4 Describe synthesis and secretion of Adrenocortical hormones and write note on functions of Glucocorticoids. 8

- 5 Write short notes : 8

- (a) Errors of Refraction

OR

- (a) Organ of Corti

- (b) Ovulation

OR

- (b) Lactation

- 6 (a) Describe Female contraceptive methods in detail. 5

- (b) Explain in 2-3 sentences : 4

(1) Red-green colour blindness occurs almost exclusively in male.

(2) Nightblindness occurs in any person with severe vitamin A deficiency.

(3) Though the pygmies of Africa have normal plasma concentration of growth hormone, they have small stature.

(4) Hypocalcemia causes tetany.