



**DAF-M-20174-O**      Seat No. \_\_\_\_\_  
**First Year M. B. B. S. Examination**  
**April - 2022**  
**Physiology : Paper - II**

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Write answers of each section in separate answer books.  
(2) Answers should be brief and draw necessary diagrams.  
(3) Illegible writing will not fetch any marks.  
(4) Figures to the right indicate full marks.

**SECTION - I**

- 1 Describe the organization of parasympathetic nervous system and discuss the effects of its stimulation. 8

**OR**

- 1 Discuss the functions and disorders of basal ganglia. 8
- 2 Write notes on : 8
- (a) Errors of refraction OR Role of middle ear in hearing.
- (b) Myasthenia gravis OR Functions of sodium-potassium pump
- 3 (a) Discuss the pathway and disorders of taste sensation. 5
- (b) Explain briefly : 4
- (i) Faradic current used for stimulating the excitable tissue.
- (ii) Polyuria, polydipsia and polyphagia in DM
- (iii) In homer's syndrome there is ptosis
- (iv) Blurring of vision when a person is inside water.

## SECTION - II

4 Describe functions and regulation of secretion of posterior pituitary hormones. 8

OR

4 What are glucocorticoids? Describe their functions and control of their secretion. 8

5 Write notes on : 8

(a) Spermatogenesis OR Functions of progesterone

(b) Puberty OR Premenstrual syndrome

6 (a) Give an account of the physiology of neuromuscular transmission in skeletal muscle 5

(b) Explain briefly : 4

(i) LH surge is necessary for ovulation

(ii) Ultraviolet and infrared rays are not perceived by the human eye

(iii) Cones are responsible for color vision

(iv) Non-pitting edema in hypothyroidism

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