

2019

PHYSIOLOGY

Paper —II

Full Marks : 50

Time : 3 hours

Answer **all** questions

The figures in the right-hand margin indicate marks

Draw diagrams wherever necessary

1. Describe the physiology of menstruation.
Enumerate the actions of the hormone oestrogen. 8 + 7

2. Describe the physiological anatomy and functions of basal ganglia. What is the clinical significance and the disorders associated with basal ganglia. 9 + 6

(Turn Over)

(2)

Or

Enumerate the auditory pathway with diagram. Describe the structure and function of Organ of Corti. Name the various hearing tests with significance. $5 + 5 + 5$

3. Write short notes on the following : 2×5

- (i) Conn's syndrome
- (ii) Glucose tolerance test
- (iii) Syringomyelia
- (iv) Pupillary light reflex
- (v) RAAS.

4. Give physiological basis / explain the following : 2×5

- (a) Effects of unilateral parietal lobe removal.
- (b) Puberty sets in early in females than males.
- (c) Administration of iodine preparation to patient prior to thyroid surgery.

(3)

(d) Patients with kidney disease become oedematous.

(e) High protein diet increases kidney's ability to concentrate urine.

3. Write short notes on the following : 2×5

- (i) Conn's syndrome
- (ii) Glucose tolerance test
- (iii) Syringomyelia
- (iv) Pupillary light reflex
- (v) RAAS.

4. Give physiological basis / explain the following : 2×5

- (a) Effects of unilateral parietal lobe removal.
- (b) Puberty sets in early in females than males.
- (c) Administration of iodine preparation to patient prior to thyroid surgery.