

## www.FirstRanker.com www.FirstRanker.com The West Bengal University of Health Sciences MBBS 1" Professional Examination (New Regulation), March 2021

Subject: Physiology
Paper: II
Time: 3 hours

Attempt all questions. The figures in the margin indicate full marks.

Name the components of basal ganglia. With a suitable diagram outline their chief connections and functions. Briefly state the features and treatment of Parkinsonism.

2+3+3+5+2

- Describe the mechanism of action of growth hormone. Enumerate the factors influencing secretion of growth hormone.
  10+5
- 2 37 Define pain. Describe pain pathways. Write briefly endogenous pain control mechanisms.

  1+6+3
- b) Describe how the countercurrent mechanism in the kidney operates to produce hypertonic or hypotonic urine. Add a note on micrurition reflex.

  5+5
  - c) What is mensional cycle? Explain the ovarian changes taking place during menstrual cycle.
- 3. Write a short notes on the following:

Oral contraceptive pills.

b) Acromegaly.

- 4. Explanation the following statements:
  - Older persons show presbyopia.
  - b) Cryptorchids are usually causes infertility.
  - 5 Lactation is a natural method of contraception.
  - تَ Thyroid dwarfs are usually mentally retarded.
  - (a) Hemi section of spinal cord affects both sides of the body.
- Choose the correct option of each of the following:

10x1

5x2

5 x 4

- i) Which of the following is true of the tubular fluid that passes through the lumen of the early distal tubule in the region of the macula densa?
  - 21 It is usually isotonic
  - b) It is usually hypotonic
  - c) It is usually hypertonic
  - d) It is hypertonic in antidiuresis

P.T.O.