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The West Bengal University of Health Sciences MBBS 1st Professional Examination (New Regulation), March 2021

Subject: Physiology
Paper: II

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

- by Describe the mechanism of action of growth hormone. Enumerate the factors influencing secretion of growth hormone.
- 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.
 - c) What is menstrual evole? Explain the ovarian changes taking place during menstrual cycle.
- Write a short notes on the following:

5x2

- Oral contraceptive pills.
- b) Acromegaly.
- 4. Explanation the following statements:

5 x 4

- Older persons show presbyopia.
- b) Cryptorchids are usually causes infertility.
- Lactation is a natural method of contraception.
- 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

- 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?
 - 2) It is usually isotonic
 - b) It is usually hypotonic
 - c) It is usually hypertonic
 - d) It is hypertonic in antidiuresis

P.T.O.