



RAN-2406120901010503

M. D. (Physiology) Examination September - 2025

Paper - III

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

M. D. (Physiology)

Name of the Subject :

Paper - III

Subject Code No.: **2406120901010503**

Seat No.:

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Student's Signature

- (2) All questions are compulsory except where choice is given.
- (3) Write legible and to the point.
- (4) Draw diagrams wherever necessary.
- (5) Figures on the right indicate marks.

- Q. 1.** Enumerate the various nuclei of Basal ganglia. Describe the neuronal circuits and various functions of Basal Ganglia. Add a note on Parkinson's disease and the principle of its management. **(25)**
- Q. 2.** Enumerate the functions of Calcium in human body. Describe the role of various hormones in maintaining Calcium Homeostasis. Add a note on Tetany. **(25)**
- Q. 3.** Define and classify memory. Describe the various structural and physiological processes involved in memory storage. Add a note on Alzheimer's disease. **(26)**
- Q. 4.** Write short notes on: **(8×3=24)**
 - a. Disorders of increased Growth Hormone.
 - b. Spermatogenesis and its regulation
 - c. Visual pathway and its lesions.