



RAN-2406120901010504

M. D. (Physiology) Examination September - 2025

Paper - IV

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 - IV

Subject Code No.: **2406120901010504**

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.** Define and classify obesity. Describe the pathophysiology of obesity. Discuss the role of adipose tissue as an endocrine gland. **(25)**
- Q. 2.** Enlist the various Autonomic Function Tests. Describe the Heart rate variability analysis and its clinical significance. **(25)**
- Q. 3.** Describe the various cardiorespiratory responses to exercise. Add a note on various consequences of physical inactivity on human body. **(26)**
- Q. 4.** Write short notes on: **(8×3=24)**
 - a. Micro RNAs
 - b. Principle of Dialysis or artificial kidney.
 - c. Role of Artificial intelligence in medical education.