

**RAN-2406120601010501****M. D. (Pathology) Examination September - 2025****Basic Sciences as applied to Pathology (Paper - I)****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. (Pathology)**

Name of the Subject :

☛ **Basic Sciences as applied to Pathology (Paper - I)**Subject Code No.: **2406120601010501**

Seat No.:

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Student's Signature

- (2) All questions are compulsory.
- (3) Draw diagram wherever necessary .
- (4) Figures to the right indicate full marks.
- (5) Write in neat and legible handwriting.

Long answer questions:**(20×2=40)**

Q. 1. Discuss etiologic agent, routes of transmission pathogenesis and pathologic lesions and clinical manifestations Of AIDS and add a note on revised CDC classification .

Q. 2. Define Shock. Discuss pathogenesis of Septic Shock, stages of Shock and morphologic features in Shock.

Q. 3. Short answer questions:**(10×6=60)**

- a. Write role of Stem cells in health and disease.
- b. Discuss Sex Linked Inheritance.
- c. Give an account on Prostaglandins.
- d. Write about tumour suppressor genes and their role in oncogenes.
- e. Discuss Apoptosis and Necrosis in detail.
- f. Write a brief account on lysosomal storage disease.