



RAN-2406120601010501

M. D. (Pathology) Examination September - 2025

Basic Sciences as applied to Pathology (Paper - I)

Time: 3 Hours]

[Total Marks: 100

સૂચનો : / Instructions

(1)

નીચે દર્શાવેલ સૂચનાઓનું ચિત્રિત ઉત્તરવક્રી 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.:

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.



RAN-2406120601010502



M. Ds (Pathology) Examination September - 2025

Systemic Pathology (Surgical and Cytopathology) Paper - II

Time: 3 Hours]

[Total Marks: 100

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(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવટી 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 :

Systemic Pathology (Surgical and Cytopathology) Paper - II

Subject Code No.: 2406120601010502

Seat No.:

Student's Signature

- Q. 1. Classify & discuss the pathology of Gestational Trophoblastic Diseases. (20)
- Q. 2. Discuss importance of immunohistochemistry and other markers in soft tissue sarcomas. (20)
- Q. 3. Write short notes on each (10×6=60)
- The Bethesda system for thyroid cytopathology
 - Myocarditis
 - Prostatic Intraepithelial Neoplasia
 - Pathology of vitamin A deficiency
 - Duchene muscular dystrophy
 - H. Pylori in gastro duodenal disease



RAN-2406120601010503

M. D. (Pathology) Examination September - 2025

**Haematology, Transfusion Medicine and Lab Medicine including
Instruments and Casualties, Control (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. (Pathology)

Name of the Subject :

Haematology, Transfusion Medicine and Lab Medicine
Including Instruments and Casualties, Control (Paper - III)

Subject Code No.: 2406120601010503

Seat No.:

Student's Signature

- Q. 1.** Discuss Plasma cell disorders. (20)
- Q. 2.** Discuss Pancytopenia with special reference to its etiopathogenesis and laboratory evaluation. (20)
- Q. 3.** Short Notes (6×10)
- Paroxysmal Nocturnal Hemoglobinuria.
 - Automation in haematology
 - Haemophilia
 - Blood Transfusion Reaction
 - Occult Blood in Stool
 - Quality control in Blood Bank

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M. D. (Pathology) Examination September - 2025

Recent Advances in Pathology (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. (Pathology)

Name of the Subject :

Recent Advances In Pathology (Paper - IV)

Subject Code No.: 2406120601010504

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. Write about pathophysiology and recent updates in treatment strategy Anaemia in chronic kidney disease.
- Q. 2. Enumerate histopathology of pulmonary carcinomas, define invasion in adenocarcinoma. Write how to Stage multiple pulmonary carcinoma.

Q. 3. Short answer questions:

(10×6=60)

- a. Metastatic solid tumours in testis.
- b. Breast implant related lymphomas.
- c. Enumerate and describe different accreditation boards in testing and calibration laboratories.
- d. Write about the role of IHC in Targeted therapy of different tumours.
- e. Describe the principle of Flow Cytometry and its role in transfusion medicine.
- f. Explain in detail the role of artificial intelligence assisted image analysis in histopathology.