

**RAN-2406120601010504****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.:

--	--	--	--	--	--

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)**

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