



RAN - 2106120501010001

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M. D. Examination June - 2023

Pathology (Paper -1) Basic Medical Sciences as Applied to Pathology

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

- (૧) 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.

Name of the Subject :

Pathology (Paper -1) Basic Medical Sciences as Applied to Pathology

Subject Code No.: 2106120501010001

Seat No.:

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Student's Signature

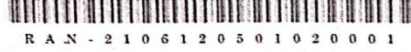
- (2) All Questions are compulsory.
- (3) Write legibly
- (4) Figures to the right indicate full marks.

1. Discuss role of plasma protein derived mediators in pathogenesis of inflammation. 25
2. Mention Autopsy guidelines & precautions in Covid - 2019 and describe autopsy pathology in Covid 2019. 25
3. Describe role of apoptosis in health & disease. 25
4. Write short notes in : 13+12=25
 - a) Chronic granulomatous disease.
 - b) Antioxidant defense mechanisms.

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[40] P1599



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M. D. Examination June - 2023

Pathology (Paper - II) Systemic Pathology & Cytology

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Name of the Examination:

M. D.

Name of the Subject :

Pathology (Paper - II) Systemic Pathology & Cytology

Subject Code No.: 2106120501020001

Seat No.:

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Student's Signature

- (2) All Questions are compulsory.
- (3) Write legibly
- (4) Figures to the right indicate full marks

1. Describe pathogenesis and pathology of pulmonary hypertension. 25
2. Describe pathogenesis and pathology of tubular interstitial diseases of kidney. 25
3. Describe different types of Vasculitis.
Discuss noninfectious Vasculitis in detail. 25
4. Write notes in : 13+12=25
 - a) Bethesda System of reporting FNAC of thyroid lesions.
 - b) Liquid based cytology.

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[40] P1600

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M.D. Examination June - 2023

**Hematology, Clinical Pathology, Clinical Biochemistry and
Transfusion Medicine (Paper -III)**

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

(૧) 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.

Name of the Subject :
Hematology, Clinical Pathology, Clinical Biochemistry
and Transfusion Medicine (Paper -III)

Subject Code No.: 2106120501030001

Seat No.:

Student's Signature

- (2) All questions are compulsory.
(3) Write legibly.
(4) Figures to the right indicate full marks.

- Q. 1. Describe the principle of Chemiluminiscence technique & its application in hormonal assessment of Female infertility. (25)
- Q. 2. Describe the functional platelet disorders & approach to their diagnosis. Enlist & describe the various diagnostic tests done. (25)
- Q. 3. Discuss the criteria for diagnosis of Multiple myeloma & describe the bone marrow picture. Elaborate the diagnostic laboratory investigations. (25)
- Q.4 Write notes on: (12+13=25)
- a) Enlist laboratory investigations to diagnose the immediate complications of mismatched blood transfusion with their clinical significance.
- b) Enlist & describe acute phase reactants with their clinical significance.

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M. D. Examination June - 2023

Pathology : Recent Advances in Pathology (Paper - IV)

Time: 3 Hours]

[Total Marks: 100

सूचना : / Instructions

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नीचे दृष्टविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

M. D.

Name of the Subject :

Pathology : Recent Advances in Pathology (Paper - IV)

Subject Code No.: 2106120501040001

Seat No.:

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Student's Signature

- (2) All Questions are compulsory.
- (3) Write legibly
- (4) Figures to the right indicate full marks

1. Discuss molecular biology of colorectal cancer and its implications for diagnosis & treatment. (25)
2. Describe role of artificial intelligence (AI) in diagnosis & Gleason's grading of carcinoma of prostate. (25)
3. Write notes on: (13+12=25)
 - a) New generation sequencing (NGS).
 - b) Synoptic reporting in histopathology.
4. Write notes in : (13+12=25)
 - a) Virtual digital pathology.
 - b) Role of Liquid biopsy in management of cancer.

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