

Aug - 2026

**BLDE (DEEMED TO BE UNIVERSITY)
POST GRADUATE DEGREE EXAMINATION**

[Time: 3 Hours]

[Max. Marks: 100]

MD PATHOLOGY – PAPER - I

QP CODE: 5013

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Describe the mechanisms of cell injury. Discuss apoptosis and necrosis with emphasis on molecular pathways and clinical relevance.
2. Explain the pathophysiology of inflammation. Discuss the roles of cytokines, chemokines, and cellular mediators in acute and chronic inflammation.

Short Essay

6x10=60 Marks

3. Describe the molecular mechanisms of oncogenesis and hallmarks of cancer.
4. Write classification, mechanisms, and examples of hypersensitivity reactions.
5. Write a brief note on cytogenetic disorders involving autosomes.
6. Write a brief note on edema, thrombosis, embolism, and infarction.
7. Write a brief note on principles and applications of PCR and molecular diagnostic techniques in pathology.
8. Discuss about pathogenesis of autoimmune diseases with examples.

19/08

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[Time: 3 Hours]

[Max. Marks: 100]

MD PATHOLOGY – PAPER - II

QP CODE: 5014

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Discuss the pathological classification, grading, and molecular alterations in lung carcinoma with emphasis on targeted therapy implications.
2. Describe the role of cytopathology in the diagnosis of cervical lesions. Discuss PAP smear screening, reporting systems, and HPV correlation.

Short Essay

6x10=60 Marks

3. Describe histopathology of gastric carcinoma. Add a note on Lauren classification.
4. Discuss cytological diagnosis of benign and malignant breast lesions.
5. Role of special stains and immunohistochemistry (IHC) in liver tumours.
6. Write microscopic subtypes and prognosis of renal cell carcinoma.
7. Discuss briefly on fine needle aspiration cytology (FNAC) of salivary gland lesions. Add a note on classification and pitfalls.
8. Write a note on pathological features of endometrial hyperplasia and carcinoma.

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**MD PATHOLOGY – PAPER - III
QP CODE: 5015**

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
Each answer should be written on new page only.
Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Discuss the classification, pathogenesis, and laboratory diagnosis of anemias with special reference to iron deficiency and megaloblastic anemia. Discuss the role of advanced diagnostic tests.
2. Describe transfusion-transmitted infections (TTIs). Discuss screening strategies, newer technologies, and their role in ensuring blood safety.

Short Essay

6x10=60 Marks

3. Write a brief note on laboratory approach to bleeding disorders.
4. Write about principles and applications of flow cytometry in hematology.
5. Classify platelet disorders and discuss about its' laboratory diagnosis.
6. Write a brief note on external quality assurance schemes (EQAS) in laboratory medicine.
7. Discuss the role of coagulation analyzers and add a note on interpretation of PT, aPTT, INR.
8. Classify transfusion reactions and add a note on its' laboratory workup.

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**MD PATHOLOGY – PAPER - IV
QP CODE: 5016**

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Describe the recent advances in molecular diagnostics in hematopathology, including flow cytometry, cytogenetics, and molecular techniques. Discuss their impact on classification and prognosis.
2. Discuss the application of digital pathology and telepathology in modern diagnostics. Analyse its advantages, challenges, and future scope.

Short Essay

6x10=60 Marks

3. Write a brief note on advances in cytopathology: liquid-based cytology and ancillary techniques.
4. Discuss tumour microenvironment and its diagnostic and therapeutic implications.
5. Discuss the role of epigenetics in cancer: DNA methylation and histone modification.
6. Write about advances in infectious disease diagnostics.
7. What do you mean by organoids? Write their application in pathology research.
8. Discuss about companion diagnostics in targeted cancer therapy.