

July 2023

**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 left side of margin.

Long Essay

(2x20=40 Marks)

1. Discuss the Mismatch repair (MMR) in microsatellite instability.
2. Discuss the role of extracellular matrix components in wound healing.

Short Essay

(6x10=60 Marks)

3. Nephelometry.
4. Metaplastic changes in tissues.
5. Discuss the pathology of multiple organ failure syndromes.
6. Use of microarray technique in pathology.
7. Immunologic tolerance.
8. Discuss the role of Human Papilloma Virus in oncogenesis.

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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 left side of margin.

Long Essay

(2x20=40 Marks)

1. Discuss role of Flow Cytometry in Laboratory diagnosis of Acute leukemia.
2. Discuss automation in cytology.

Short Essay

(6x10=60 Marks)

3. Write a short note on TTP.
4. Write a short note on laboratory diagnosis of Autoimmune Hemolytic Anemia (AIHA).
5. Write a short note on Coomb's test.
6. Write a short note on autologous blood transfusion.
7. Define and classify leukemoid reaction. How will you differentiate it from leukemia?
8. Write a short note on myelofibrosis.

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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 left side of margin.

Long Essay

(2x20=40 Marks)

1. Role of immunofluorescence in diagnosis of vesiculobullous skin disorders
2. Discuss morphology of peripheral nerve sheath tumors

Short Essay

(6x10=60 Marks)

3. Pulmonary hypertension
4. Placental site trophoblastic tumor
5. Precursor lesions of penile carcinoma
6. Renal lesions in diabetes mellitus
7. Gastrointestinal stromal tumor
8. CNS infections in AIDS

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[Time: 3 Hours]

[Max. Marks: 100]

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 left side of margin.

Long Essay

(2x20=40 Marks)

1. Write 2020 WHO classification of ovarian tumor. Write a note on morphologic and molecular analysis done in 2020 WHO classification of ovarian tumor.
2. Describe etiopathogenesis and Pathological changes in the lungs and lymphatic organs of COVID 19 disease autopsy findings. Add a note on handling of autopsy specimen of COVID 19 disease

Short Essay

(6x10=60 Marks)

3. Describe pathogenesis of endometriosis. Add a note on recent updates
4. Describe etiopathogenesis of Thalassemia. Add a note on Gene therapy for Thalassemia
5. Describe role of digital pathology and artificial intelligence to augment pathological diagnosis
6. Molecular testing for Human Papilloma Virus (HPV) – Describe various HPV testing technology with their merits and Demerits
7. Describe recent updates in autoimmune disorders
8. Write note on new entities and selected Changes done in 2020 WHO classification of tumors of soft tissue.