

**POST GRADUATE EXAMINATION, MAY- 2020**

**MD PATHOLOGY  
(PAPER ONE)**

**GENERAL & APPLIED PATHOLOGY**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Classify lysosomal storage diseases. Discuss Niemann Pick disease. **(20)**

**Q. 2.** What is an ideal fixative? Classify fixatives with examples. Describe the preparation of 10% buffered formalin. **(20)**

**Q. 3. Describe briefly:** **(3 x 10 = 30)**

- a. Flowcytometry in diagnosis of Non Hodgkins lymphoma
- b. Viral oncogenesis
- c. Cytokines and their role in inflammation

**Q. 4. Write short notes on:** **(5 x 6 = 30)**

- a. Granulomas and giant cells
- b. Histioid leprosy
- c. Histochemical stains for amyloid
- d. Urine cytology in renal transplant
- e. FISH

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**POST GRADUATE EXAMINATION, MAY- 2020**

**MD PATHOLOGY  
(PAPER TWO)**

**SYSTEMIC PATHOLOGY, CLINICAL BIOCHEMISTRY & CLINICAL MICROBIOLOGY**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

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**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Classify and discuss histology of soft tissue tumors. **(20)**

**Q. 2.** Discuss etiopathogenesis, pathology and complications of diabetic nephropathy **(20)**

**Q. 3. Describe briefly:** **(3 x 10 = 30)**

- a. Histopathology of bullous lesions of skin
- b. Pathogenesis of inflammatory bowel disease
- c. Autoimmune hepatitis

**Q. 4. Write short notes on:** **(5 x 6 = 30)**

- a. Tumor like lesions of bone
- b. PAN
- c. Prion's disease
- d. Endometriosis
- e. Lobar pneumonia

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## POST GRADUATE EXAMINATION, MAY- 2020

MD PATHOLOGY  
(PAPER THREE)

## HAEMATOLOGY, BLOOD BANKING, CYTOLOGY AND CLINICAL PATHOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Classify and discuss cytological diagnosis of lung tumors. (20)

**Q. 2.** Classify and discuss lab diagnosis of myelodysplastic syndrome. (20)

**Q. 3. Describe briefly:** (3 x 10 = 30)

- a. Cytology of salivary gland lesions
- b. Work up of acute transfusion reactions
- c. Discuss lab diagnosis of multiple myeloma

**Q. 4. Write short notes on:** (5 x 6 = 30)

- a. Platelet function tests
- b. Objective scoring in semen analysis
- c. Haematogones
- d. Coombs test
- e. Quality control in blood banking

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**POST GRADUATE EXAMINATION, MAY- 2020**

**MD PATHOLOGY  
(PAPER FOUR)**

**RECENT ADVANCES & THEIR CLINICAL APPLICATIONS**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Discuss current (WHO) molecular classification of CNS tumors. **(20)**

**Q. 2.** Describe tissue microarray technique and its uses in pathology. **(20)**

**Q. 3. Describe briefly:** **(3 x 10 = 30)**

- a. Molecular genetics of colon cancer
- b. Molecular classification of breast carcinoma
- c. Multistep cancer progression model

**Q. 4. Write short notes on:** **(5 x 6 = 30)**

- a. Molecular diagnosis of extra-pulmonary tuberculosis
- b. Epithelial mesenchymal transition in cancer
- c. Sample collection and techniques for gene mutations
- d. Direct genome sequencing in diagnostic pathology
- e. Stem cell banking

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