MD (PATHOLOGY) DEGREE EXAMINATION – JUNE 2020

SUBJECT: PAPER I: GENERAL PATHOLOGY, PATHOPHYSIOLOGY, IMMUNOPATHOLOGY AND CYTOPATHOLOGY

Wednesday, June 03, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Describe the pathogenesis of septic shock.

(15 marks)

2. Describe the role of free radicals in cell injury.

(15 marks)

- 3. Write short notes on:
- 3A. Mechanism of T cell immunodeficiency in HIV infection
- 3B. Microsatellite instability
- 3C. Pancreatic cytology
- 3D. Mechanisms of apoptosis
- 3E. Inflammatory actions of eicosanoids
- 3F. Role of retinoblastoma gene in neoplasia
- 3G. Functions of transforming growth factor in wound healing and repair
- 3H. Pathogenesis of amyloidosis
- 31. Graft versus host disease
- 3J. Tumor markers

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

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MD (PATHOLOGY) DEGREE EXAMINATION – JUNE 2020

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Thursday, June 04, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- ∠ Long Essay:
- 1. Discuss the role of endoscopic biopsies in ulcerative colitis.

(15 marks)

2. Classify ovarian tumors. Describe the pathology and immunohistochemistry of sex cord stromal tumors.

(4+7+4 = 15 marks)

- 3. Write short notes on:
- 3A. Non-neoplastic polyps of the colon
- 3B. Histopathology of proliferative breast disease
- 3C. Non neoplastic neuroendocrine proliferations of lung
- 3D. Pathogenesis of Alzheimer's disease
- 3E. Estrogen receptors
- 3F. Sequelae of Hepatitis B infection
- 3G. Granulomatous prostatitis
- 3H. Pathogenesis of thyroid cancers
- 3I. Pathology of mesenchymal tumors of kidney
- 3J. Acute hemorrhagic pancreatitis

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

Reg. No.					
			7-35	100	

MD (PATHOLOGY) DEGREE EXAMINATION – JUNE 2020

SUBJECT: PAPER III: HAEMATOLOGY, TRANSFUSION MEDICINE (BLOOD BANKING) AND LABORATORY MEDICINE

Friday, June 05, 2020

Time: 14:00 – 17:00 Hrs. Max. Marks: 100

- ∠ Long Essay:
- 1. Discuss blood component preparation and their uses.

(15 marks)

2. Discuss childhood leukemias. Add a note on laboratory approach to childhood leukemias.

(15 marks)

- 3. Write short notes on:
- 3A. Automation in urine examination
- 3B. Pathololgic features of Waldenstrom macroglobulinemia
- 3C. Paroxysmal nocturnal hemoglobinuria
- 3D. Applications of RBC indices
- 3E. WHO classification of Myelodysplastic syndrome
- 3F. Advantages and disadvantages of different methods for malaria detection
- 3G. Type 2 von Willebrand disease
- 3H. Sideroblastic anemia
- 3I. Ritcher Syndrome
- 3J. Inhibitors in congenital coagulation disorders

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

Reg. No.			

MD (PATHOLOGY) DEGREE EXAMINATION – JUNE 2020

SUBJECT: PAPER IV: RECENT ADVANCES AND APPLIED ASPECTS

Saturday, June 06, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Z Long Essay:
- 1. Discuss Adult stem cells and transdifferentiation. Discuss the role of stem cells in tissue homeostasis.

(15 marks)

2. Discuss the role of immunohistochemistry in the differentiation of prostatic carcinoma from its mimics.

(15 marks)

- 3. Write Short notes on:
- 3A. Minimal residual disease
- 3B. Histopathological techniques in the detection of fungal infections
- 3C. Basal like breast carcinoma
- 3D. Cytogenetics and prognostic features of rhabdomyosarcoma
- 3E. PCR and detection of DNA sequence alterations
- 3F. Transfusion related acute lung injury (TRALI)
- 3G. Familial tumor syndromes
- 3H. EBV related lymphoproliferative disorders
- 31. BRAF mutations and related tumors
- 3J. Serrated pathway in colorectal cancers

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$