Reg. No.				

MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2017

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

Monday, April 03, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss the mechanisms of self tolerance and autoimmunity?

(8+7 = 15 marks)

2. Describe the techniques used and their applications in the molecular diagnosis of genetic disorders.

(15 marks)

- 3. Write Short notes on:
- 3A. Processing of mucoid fluids in cytology
- 3B. The Bethesda system for reporting thyroid cytology
- 3C. Warburg effect
- 3D. Role of oxidative stress in cell injury
- 3E. Inhibitors of acute inflammation
- 3F. Role of Matrix metalloproteinases in diseases
- 3G. Antithrombotic properties of normal endothelium
- 3H. Mechanisms of Apoptosis
- 3I. Role of RAS oncogene in human tumors
- 3J. Role of macrophages in wound healing

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

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Reg. No.				

MD (PATHOLOGY) DEGREE EXAMINATION - APRIL 2017

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Tuesday, April 04, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Classify Gliomas. What are the molecular pathways involved in the genesis of these tumors? Describe the morphology of WHO grade IV lesions.

(5+5+5=15 marks)

2. Classify, describe the histopathological and immunofluorescence patterns of vesiculobullous lesions of the skin.

(5+5+5=15 marks)

- 3. Write short notes on:
- 3A. Morphology of Polymorphous low grade carcinoma
- 3B. Castleman disease
- 3C. Histopathology of cardiomyopathies
- 3D. Pathology of Endolymphatic stromal myosis
- 3E. Mucinous and tubular spindle cell carcinoma of the Kidney
- 3F. Pathogenesis of Autoimmune thyroiditis
- 3G. Prognostic indicators and pathogenesis of Malignant Melanoma
- 3H. Features of Hereditary non-polyposis colon cancer syndrome
- 3I. Types and morphology of Cystic neoplasms of pancreas
- 3J. Histopathology of rheumatoid arthritis

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

Reg. No.			

MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2017

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

Wednesday, April 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- Discuss the laboratory approach to thrombotic disorders.

(15 marks)

2. Classify transfusion reactions and discuss its investigation.

(15 marks)

- 3. Write short notes on:
- 3A. Microalbuminuria
- 3B. Acquired hemophilia
- 3C. Tyrosine kinase mutations in leukemias
- 3D. Monoclonal gammapathy of uncertain significance
- 3E. LJ chart
- 3F. Applications of flow cytometry
- 3G. Pathobiology of sickle cell disease
- 3H. Antibody screening and identification in blood banking
- 3I. Platelet transfusion
- 3J. Microscopy of synovial fluid

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

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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER IV: RECENT ADVANCES AND APPLIED ASPECTS

Thursday, April 06, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Mention the current WHO classification of central nervous system tumors. Discuss the pathology of newly described entities.

(15 marks)

2. Discuss the molecular diagnosis of genetic disorders.

(15 marks)

- 3. Write short notes on:
- 3A. Automation in cytology
- 3B. Diagnosis and molecular pathology of Hirschsprung disease
- 3C. Recent advances in laboratory diagnosis of malaria
- 3D. Morphology of premalignant conditions in the breast
- 3E. Barrett esophagus
- 3F. Non-alcoholic steatohepatitis
- 3G. Tissue microarray
- 3H. Adult stem cells
- 3I. Serrated adenoma
- 3J. Recent advances in natural history of cervical carcinogenesis

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