Reg. No.	
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MD (PATHOLOGY) DEGREE EXAMINATION – OCTOBER 2015

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

Tuesday, October 06, 2015

- Answer ALL the questions.
- Long Essays:

Time: 14:00 - 17:00 Hrs.

1. Discuss the role of free radicals in health and disease.

(15 marks)

Max. Marks: 100

2. Discuss the immunopathology of transplant rejection.

(15 marks)

- 3. Write short notes on:
- 3A. Toll like receptors
- 3B. Angiogenesis
- 3C. Cytology of Follicular neoplasms of the thyroid
- 3D. miRNA and carcinogenesis
- 3E. A typical glandular cells in cervical cytology
- 3F. Mechanism of autoimmune disease
- 3G. Technique of Liquid based cytology
- 3H. Role of Cyclins in disease
- 3I. Vitamin D deficiency
- 3J. Cytomegalovirus infection

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MD (PATHOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Wednesday, October 07, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **E** Long Essays:
- 1. Discuss the pathogenesis and pathology of renal lesions in Diabetes mellitus.

(15 marks)

2. Discuss myofibroblastic proliferations mimicking soft tissue sarcomas.

(15 marks)

- 3. Write short notes on:
- 3A. Complex sclerosing lesions of breast
- 3B. PECOMA
- 3C. Hereditary basis of colorectal carcinoma
- 3D. Differential diagnosis of clear cell tumors of salivary gland
- 3E. Pathology of NASH
- 3F. Morphology of Alzheimer disease
- 3G. Cystic diseases of pancreas
- 3H. Intermediate trophoblastic tumors
- 31. Polyarteritis nodosa
- 3J. Role of IHC in evaluation of problematic prostatic biopsies

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MD (PATHOLOGY) DEGREE EXAMINATION - OCTOBER 2015

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

Thursday, October 08, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Long Essays:
- 1. Discuss Quality control and Assurance in the hematology laboratory.

(15 marks)

2. Discuss the principles of Flow cytometry and its application in the diagnosis of acute leukemia.

(15 marks)

- 3. Write short notes on:
- 3A. Irradiation of blood products
- 3B. Laboratory diagnosis of myeloma
- 3C. Congenital dyserythropoietic anemia
- 3D. Polycythemia vera
- 3E. Amniotic fluid analysis
- 3F. Blood component therapy
- 3G. Evaluation of thrombocytopenia
- 3H. Applications of FISH
- 3I. Urine analysis in chronic kidney disease
- 3J. Laboratory diagnosis of Sickle cell anemia



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MD (PATHOLOGY) DEGREE EXAMINATION - OCTOBER 2015

SUBJECT: PAPER IV: RECENT ADVANCES AND APPLIED ASPECTS

Friday, October 09, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Long Essays:
- 1. Discuss the role of HER2-neu as a biomarker in various cancers.

(15 marks)

2. Discuss the medicolegal aspects of histopathology practice.

(15 marks)

- 3. Write short notes on:
- 3A. WHO / ISUP classification of tumors of urinary tract (2004)
- 3B. Pathology of Non-alcoholic steatohepatitis
- 3C. BRAF mutation
- 3D. Cancer stem cell
- 3E. Heat shock proteins
- 3F. Applications of RT-PCR
- 3G. Morphology of Merkel cell carcinoma
- 3H. MIB-1 labelling
- 31. Serrated colorectal polyps
- 3J. Biosafety in the laboratory