Reg. No.	

## MD (PATHOLOGY) DEGREE EXAMINATION – OCTOBER 2017

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

Tuesday, October 03, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Z Long Essay:
- 1. Discuss the mechanisms of autoimmunity and classify the autoimmune endocrine disorders.

(15 marks)

2. Discuss the molecular basis of tumor development & progression.

(15 marks)

- 3. Write Short notes on:
- 3A. List the lysosomal storage diseases and discuss the features of Gauchers disease
- 3B. Mechanism of angiogenesis in wound healing
- 3C. CSF cytology in neoplastic meningitis
- 3D. Cytology samples in the diagnosis of pulmonary lesions
- 3E. Quality assurance in cytology
- 3F. Morphological & biochemical changes in apoptosis
- 3G. Pathogenesis of septic shock
- 3H. Polarising microscopy
- 3I. Vitamin D deficiency
- 3J. Morphological consequences of radiation injury

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

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## MD (PATHOLOGY) DEGREE EXAMINATION – OCTOBER 2017

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Wednesday, October 04, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Classify breast tumors. Discuss the risk factors of breast cancer. Add a note on its prognostic and predictive factors.

(15 marks)

2. Discuss the recent advances in the etiopathogenesis and pathology of inflammatory bowel disease.

(15 marks)

- 3. Write short notes on:
- 3A. Recent advances in the pathology of endometrial hyperplasia
- 3B. Renal changes in diabetes mellitus
- 3C. Vegetations of the heart
- 3D. Leukocytoclastic vasculitis
- 3E. Mimics of adenocarcinoma prostrate on needle biopsy
- 3F. Morphology of chordoma
- 3G. Pathology of paraosteal osteosarcoma
- 3H. Nodular regenerative hyperplasia of the liver
- 3I. Wegener's granulomatosis
- 3J. Pathology of malignant peripheral nerve sheath tumors

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

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## MD (PATHOLOGY) DEGREE EXAMINATION - OCTOBER 2017

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

Thursday, October 05, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss laboratory diagnosis of Haemolytic anaemias.

(15 marks)

2. Classify and discuss laboratory diagnosis of Myelodysplastic syndrome.

(15 marks)

- 3. Short Answers questions:
- 3A. Indications for components in blood transfusion
- 3B. Technique and implications of Erythrocyte sedimentation rate
- 3C. Cerebrospinal fluid analysis in microbial infections
- 3D. Problems in blood grouping
- 3E. Flow cytometry in the diagnosis of acute leukemias
- 3F. Clinical significance of Philadelphia chromosome
- 3G. Hyposplenism and associated conditions
- 3H. Clinical importance of fetal haemoglobins
- 3I. Diagnostic implications of JAK2 mutation
- 3J. Laboratory diagnosis of Niemann-Pick disease

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

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## MD (PATHOLOGY) DEGREE EXAMINATION – OCTOBER 2017

SUBJECT: PAPER IV: RECENT ADVANCES AND APPLIED ASPECTS

Friday, October 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Z Long Essay:
- 1. Discuss the role of immunohistochemistry and cytogenetics in differentiating malignant small round cell tumors.

(15 marks)

2. Discuss the principle, technique and clinical applications of flow cytometry.

(15 marks)

- 3. Write short notes on:
- 3A. Classification and morphology of neuroendocrine tumors of the lung.
- 3B. Pathogenesis and morphology of primary biliary cirrhosis.
- 3C. BRAF mutation
- 3D. Pathogenesis of acute pancreatitis
- 3E. Telepathology
- 3F. Recent advances in colorectal carcinogenesis.
- 3G. Role of immunohistochemistry in differentating atypical small acinar patterns in prostatic biopies.
- 3H. IgG4 related sialadenitis
- 3I. Bethesda system for reporting thyroid cytology.
- 3J. Discuss the basic principles of organ transplantation.

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

