Reg. No.	
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SUBJECT: PAPER I: GENERAL PATHOLOGY, PATHOPHYSIOLOGY, IMMUNOPATHOLOGY AND CYTOPATHOLOGY

Tuesday, April 02, 2019

Time: $14:00 - 17:00$ Hrs.	Max. Marks: 100
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- Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss the role of different molecular diagnostic tests in genetic disorders.

(15 marks)

2. Discuss the role of Cyclins and CDKs in cell cycle regulation.

(15 marks)

- 3. Write short notes on:
- 3A. Pathogenesis of autoimmune disorders.
- 3B. Pathophysiology of septic shock.
- 3C. Role of oncogenic DNA viruses in Neoplasia.
- 3D. Mitochondrial pathway of apoptosis.
- 3E. Role of telomerase in cellular aging.
- 3F. Antiphospholipid antibody syndrome.
- 3G. Angiogenesis in wound healing.
- 3H. T cell mediated graft rejection.
- 3I. Stem cells in tissue homeostasis.
- 3J. Bethesda system for reporting Thyroid cytopathology.

Reg. No.			

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Wednesday, April 03, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Long Essay:
- 1. Classify Diabetes mellitus. Discuss the pathogenesis of its complications and their morphology.

(3+6+6=15 marks)

2. Discuss the pathology, immunohistochemistry and differential diagnosis of gastrointestinal stromal tumors.

(5+5+5 = 15 marks)

- 3. Write short notes on:
- 3A. Krukenberg tumor.
- 3B. Pathogenesis of osteoporosis.
- 3C. Types and morphology of congenital adenomatoid malformation of lung.
- 3D. Immunofluorecence in the diagnosis of bullous lesions of the skin.
- 3E. Pathology of aortic dissection.
- 3F. Pulmonary pathology in asbestosis.
- 3G. List the prognostic and predictive factors of breast cancer.
- 3H. Fibro lamellar hepatocellular carcinoma.
- 3I. Minimal change disease.
- 3J. Seminoma variants and immunomarkers.

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

Thursday, April 04, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Classify chronic myeloproliferative disorders. Discuss the pathogenesis of primary myelofibrosis. Add a note on lab diagnosis of primary myelofibrosis.

(15 marks)

2. Discuss the diagnostic approach to acquired coagulation disorders. Add a note on etiopathogenesis of disseminated intravascular coagulation.

(15 marks)

- 3. Write short notes on:
- 3A. Clinical types of G6PD deficiency.
- 3B. Lab diagnosis of hairy cell leukemia.
- 3C. Transfusion practices in neonatology.
- 3D. Automation in ESR.
- 3E. Diagnostic criteria for hemophagocytic syndrome.
- 3F. Coombs test.
- 3G. Cytogenetic abnormalities associated with AML.
- 3H. Role of hepcidin in iron metabolism.
- 3I. Principles of strip test in urine examination.
- 3J. Recombinant hemoglobin.

Reg. No.		

SUBJECT: PAPER IV: RECENT ADVANCES AND APPLIED ASPECTS

Friday, April 05, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- € Long Essay:
- 1. What are the recent advances in Non-alcoholic steatohepatitis (NASH)? Discuss the histopathology, grading and severity of NASH.

(15 marks)

2. Discuss immunohistochemistry algorithms in the diagnosis of malignant soft tissue tumors.

(15 marks)

- 3. Short Answer questions:
- 3A. Bethesda reporting system in cervical cytology.
- 3B. Hepcidin
- 3C. Role of Cyclins in regulating the cell cycle.
- 3D. High performance liquid chromatography in haemoglobin variants.
- 3E. Hematological applications of Fluorescence in-situ hydridisation.
- 3F. Prognostic molecular markers in breast cancer.
- 3G. Pathogenesis of Chronic pancreatitis.
- 3H. Basic concepts of Haemovigilance.
- 3I. Automated tissue processor.
- 3J. Graft versus leukemia response.

