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MD (PATHOLOGY) DEGREE EXAMINATION - APRIL 2015

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

Wednesday, April 01, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

∠ Long Essay:

1. Describe the pathogenesis and list the criteria for classification of systemic lupus erythematosus (SLE). Describe the morphologic changes seen in the kidney in SLE.

(4+5+6=15 marks)

2. Discuss the role of tumor suppressor genes in the development of cancer.

(15 marks)

- 3. Write short notes on:
- 3A. Cytological evaluation of malignant ascitis
- 3B. Cytocentrifugation
- 3C. Mechanisms of Cellular ageing
- 3D. Class I Major Histocompatibility Complex molecules
- 3E. miRNAs in oncogenesis
- 3F. Pathogenesis of tuberculosis
- 3G. Pathogenesis of septic shock
- 3H. Signalling mechanisms in cell growth
- 31. Procoagulant activities of Endothelium
- 3J. Mediators of cellular events of acute inflammation

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

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MD (PATHOLOGY) DEGREE EXAMINATION - APRIL 2015

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Thursday, April 02, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss the pathogenesis of atherosclerosis.

(15 marks)

2. Discuss the role of immunohistochemistry in the differential diagnosis of spindle cell soft tissue tumors.

(15 marks)

- 3. Write short notes on:
- 3A. Pathology of Barrett's oesophagus
- 3B. Pathogenesis of complications of diabetes mellitus
- 3C. Pathology and differential diagnosis of Mycosis fungoides
- 3D. Differential diagnosis of Papillary lesions of the breast
- 3E. Microscopic colitis
- 3F. Testicular alterations in infertility
- 3G. Pathology of bronchioloalveolar carcinoma of lung
- 3H. Placental site trophoblastic tumor
- 3I. Pathology of focal segmental glomerulosclerosis
- 3J. Pleomorphic xanthoastrocytoma

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



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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2015

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

Saturday, April 04, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

∠ Long Essay:

1. Classify chronic myeloproliferative disorders. Discuss the laboratory diagnosis of these lesions.

(15 marks)

2. Discuss quality assurance in the blood bank.

(15 marks)

- 3. Write short notes on:
- 3A. Paroxysmal nocturnal hemoglobinuria
- 3B. Clinical features, types and diagnosis of antiphospholipid syndrome
- 3C. Pathology of refractory cytopenia
- 3D. Indications and uses of cryoprecipitate
- 3E. von Willebrand disease
- 3F. Transfusion- related acute lung injury
- 3G. Laboratory diagnosis and prognosis of Acute promyelocytic leukemia
- 3H. Laboratory diagnosis of malaria
- 3I. Paraproteinemia
- 3J. Automation in urinalysis

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

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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER IV: RECENT ADVANCES AND APPLIED ASPECTS

Monday, April 06, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essay:
- 1. Discuss recent advances in Hodgkin lymphoma.

(15 marks)

2. Discuss recent advances in colorectal carcinogenesis.

(15 marks)

- 3. Write short notes on:
- 3A. Microsatellite instability
- 3B. Lung cancer diagnosis in the era of targeted therapy
- 3C. Hepcidin in anemia of chronic diseases
- 3D. Bethesda system of reporting thyroid cytology
- 3E. Types and applications of PCR
- 3F. Low grade fibromyxoid sarcoma
- 3G. Mucinous lesions of appendix
- 3H. BRAF mutated tumors-BRAFomas
- 31. Endothelial cells in hemostasis
- 3J. Recent advances in pathogenesis of chronic pancreatitis

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