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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING IMMUNOPATHOLOGY

Monday, July 03, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer all the questions.**
✍ **All questions carry equal marks.**

1. Discuss the complement system in health and disease.
2. Discuss the role of autopsy as a diagnostic tool.
3. Discuss molecular diagnosis of genetic disorders.
4. Write short notes on:
 - 4A. Chemokines.
 - 4B. Type-II hypersensitivity.
 - 4C. Heredofamilial amyloidosis.
 - 4D. Telomeres.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Tuesday, July 04, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍* **Answer all the questions.**
 - ✍* **All questions carry equal marks.**

1. Discuss the utility of testicular biopsy in male infertility.
2. Classify diabetes mellitus. Discuss pathogenesis of type – 2 diabetes mellitus.
3. Discuss pathogenesis and morphologic changes observed in Alzheimer's disease.
4. Write short notes on:
 - 4A. Vasculitis syndromes.
 - 4B. Hashimoto's thyroiditis.
 - 4C. Post-streptococcal glomerulonephritis.
 - 4D. Non-alcoholic steatohepatitis.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER III: ONCOLOGY

Wednesday, July 05, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍* **Answer all the questions**
 - ✍* **All questions carry equal marks**

1. Discuss vascular tumors and tumor like lesions of childhood.
2. Discuss the pathology of non-villous gestational trophoblastic diseases.
3. Discuss cutaneous lymphoproliferative disorders.
4. Write short notes on:
 - 4A. Adenomatous polyps of GIT.
 - 4B. Polymorphous low grade adenocarcinoma.
 - 4C. Spitz nevus.
 - 4D. Central neurocytoma.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER IV: HAEMATOLOGY, CLINICAL PATHOLOGY AND CYTOLOGY

Thursday, July 06, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ~~✍~~ **Answer all the questions.**
~~✍~~ **All questions carry equal marks.**

1. Discuss bone marrow changes in HIV disease.
2. Discuss minimal residual disease and methods used for its detection in leukemia.
3. Discuss the role of FNAC in the diagnosis of lung lesions. Mention indications and complications of FNAC lung.
4. Write short notes on:
 - 4A. Automated urinalysis.
 - 4B. Leukemoid reaction.
 - 4C. Coomb's test.
 - 4D. Von Willebrand disease.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING IMMUNOPATHOLOGY

Monday, December 04, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer all the questions.**
 - ✍ **All questions carry equal marks.**

1. Discuss the mechanisms of autoimmune diseases. Describe the etiopathogenesis, pathology and laboratory diagnosis of systemic lupus erythematosus.
2. Discuss the classification and immunology of leprosy.
3. Discuss the role of recombinant DNA techniques in the diagnosis of diseases.
4. Write short notes on:
 - 4A. Apoptosis.
 - 4B. Epstein-Barr Virus associated diseases.
 - 4C. Fixatives.
 - 4D. Radiation injury.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Tuesday, December 05, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer all the questions.**
 - ✍ **All questions carry equal marks.**

1. Discuss recent developments in atherosclerosis.
2. Discuss the pathogenesis and pathology of Hirschsprung's disease.
3. Discuss the etiopathogenesis and pathology of chronic pancreatitis.
4. Write short notes on:
 - 4A. Pathology of endometrial hyperplasia.
 - 4B. Malakoplakia.
 - 4C. Hepatitis C Virus infections.
 - 4D. Differential diagnosis of renal cystic disease.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER III: ONCOLOGY

Wednesday, December 06, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer all the questions**
✍ **All questions carry equal marks**

1. Discuss the pathology of paediatric solid tumours.
2. Discuss the recent advances in lung tumor classification. Describe the morphology of primary epithelial lung tumors.
3. Discuss the mechanism of tumor invasion and metastasis.
4. Write short notes on:
 - 4A. Role of HPV in cervical cancer.
 - 4B. Premalignant lesions of the gastrointestinal tract.
 - 4C. Pathology of papillary carcinoma of the thyroid.
 - 4D. Intramedullary spinal tumors.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER IV: HAEMATOLOGY, CLINICAL PATHOLOGY AND CYTOLOGY

Thursday, December 07, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer all the questions.**
✍ **All questions carry equal marks.**

1. Classify chronic myeloproliferative disorders. Discuss diagnosis and differential diagnosis of chronic myeloid leukemia.
2. Discuss immunophenotypic classification of acute lymphoblastic leukemias.
3. Discuss the role of cytology in diagnosis of renal tumors.
4. Write short notes on:
 - 4A. Peripheral T- cell lymphoma, unspecified.
 - 4B. Delayed hemolytic transfusion reactions.
 - 4C. Congenital dyserythropoietic anemias.
 - 4D. ASCUS.

