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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING IMMUNOPATHOLOGY

Monday, July 04, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the etiology, pathogenesis and pathology of systemic lupus erythromatosus(SLE).

2. Discuss the molecular basis of carcinogenesis.

3. Discuss the new technologies for detecting alterations in genes and gene expression.

4. Write short notes on:
 - 4A. RNA oncogenic viruses.
 - 4B. Immunopathogenesis of HIV disease.
 - 4C. Familial hyper cholesterolaemia..
 - 4D. Prions.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Tuesday, July 05, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss current concepts in the pathogenesis and pathology of hypertension.

2. Discuss the morphologic features of viral hepatitis.

3. Discuss the diagnosis of cutaneous blistering diseases by light microscopy.

4. Write short notes on:
 - 4A. Pathogenesis of glomerular diseases.
 - 4B. Congenital heart disease.
 - 4C. Community acquired atypical pneumonias.
 - 4D. Spongiform leuco encephalopathy.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER III: ONCOLOGY

Wednesday, July 06, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the new WHO classification of lung tumours.

2. Discuss the pathology of gliomas.

3. Discuss the etiology, pathogenesis and pathology of hepatocellular carcinoma.

4. Write short notes on:
 - 4A. Premalignant conditions in the breast.
 - 4B. H.Pylori and gastric lymphoma.
 - 4C. Placental site trophoblastic tumors.
 - 4D. Medullary carcinoma of thyroid.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER IV: HAEMATOLOGY, CLINICAL PATHOLOGY AND CYTOLOGY

Thursday, July 07, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the role of immunocytochemistry in fine needle aspiration cytology.

2. Discuss the role of intra operative cytology in the diagnosis of breast lesions.

3. Discuss the WHO classification of acute myeloid leukemia.

4. Write short notes on:
 - 4A. Protein S(PS).
 - 4B. Synovial fluid examination.
 - 4C. Diagnosis of myelo dysplastic syndromes.
 - 4D. Bone marrow granulomas.



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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING IMMUNOPATHOLOGY

Monday, December 05, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the pathology and pathogenesis of shock.

2. Discuss amyloidogenesis. Describe the pathology and laboratory tests for confirmation.

3. Discuss the pathology of lesions caused by prosthetic materials and devices.

4. Write short notes on:
 - 4A. Telepathology
 - 4B. In situ hybridization
 - 4C. Integrins
 - 4D. Autoimmunity.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Tuesday, December 06, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the pathogenesis and pathology of the renal complications of diabetes mellitus.

2. Classify bullous skin lesions and discuss the role of immunofluorescent technique in the diagnosis of these lesions.

3. Discuss the pathology of cardiomyopathies with an emphasis on those common in India.

4. Write short notes on:
 - 4A. Cystic lesions of bone.
 - 4B. Diffuse alveolar damage.
 - 4C. Radial scar.
 - 4D. Nodular regenerative hyperplasia of the liver.

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: PAPER III: ONCOLOGY

Wednesday, December 07, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the aetiopathogenesis and morphology of small round cell tumours of child hood.

2. Give an account of recent classification and morphology of lung tumors with a note on prognosis.

3. Discuss the recent concepts of adult renal tumors.

4. Write short notes on:
 - 4A. Role of stroma in neoplasia.
 - 4B. Pathology of posterior cranial fossa tumours.
 - 4C. Pathogenesis and pathology of germ cell tumors of testis.
 - 4D. Early gastric carcinoma.

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PATHOLOGY) DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: PAPER IV: HAEMATOLOGY, CLINICAL PATHOLOGY AND CYTOLOGY

Thursday, December 08, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the recent advances in classification of acute leukaemia.

2. Enumerate and discuss the role of various cytological techniques for respiratory tract cytology.

3. Discuss the recent advances in the natural history of cervical carcinogenesis.

4. Write short notes on:
 - 4A. Blood substitutes.
 - 4B. Von Willebrand disease and its diagnosis.
 - 4C. Quality assurance in cytopathology.
 - 4D. Microalbuminuria.

