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# MANIPAL UNIVERSITY

MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2013

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

Tuesday, April 02, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ All questions carry equal marks.

1. Discuss apoptosis and explain its clinicopathologic correlations.
2. Describe microbial carcinogenesis.
3. Discuss the indications, interpretation and pitfalls of transthoracic FNAB.
4. **Write short notes on:**
  - 4A. Arachidonic acid metabolites in inflammation
  - 4B. Leptin and energy balance
  - 4C. Fragile X syndrome
  - 4D. Aetiopathogenesis of systemic sclerosis



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# MANIPAL UNIVERSITY

MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2013

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Wednesday, April 03, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL the questions.
- ✍ All questions carry equal marks.

1. Discuss nonalcoholic fatty liver disease.
2. Describe pathogenesis, pathology and diagnosis of Hashimoto thyroiditis.
3. Classify and discuss testicular tumours.
4. **Write short notes on:**
  - 4A. Renal lesions in systemic lupus erythematosus
  - 4B. Chondroblastoma
  - 4C. Endometrial intraepithelial neoplasia
  - 4D. Pancreatic heterotopia



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## MANIPAL UNIVERSITY



MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2013

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

Thursday, April 04, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

-  **Answer ALL the questions.**
-  **All questions carry equal marks.**

1. Discuss the molecular pathogenesis and clinical course of myeloproliferative disorders.
2. Discuss automation in haematology.
3. Discuss the preparation and indications of blood component therapy.
4. **Write short notes on:**
  - 4A. Functional disorders of platelets
  - 4B. Haematuria
  - 4C. Cutaneous T cell lymphomas
  - 4D. The Rh antigen



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## MANIPAL UNIVERSITY

MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2013

SUBJECT: PAPER IV: RECENT ADVANCES AND APPLIED ASPECTS

Friday, April 05, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL the questions.
- ✍ All questions carry equal marks.

1. Discuss intrahepatic biliary tract diseases.
2. Discuss the diagnosis of vascular tumors of the soft tissue with the aid of new markers.
3. Discuss the role of immunohistochemistry in intradermal spindle cell proliferations.
4. **Write short notes on:**
  - 4A. DNA microarray
  - 4B. Lobular intraepithelial neoplasia of breast
  - 4C. Giant cell lesions of the bone
  - 4D. Recent classification of neuroendocrine tumors of the lung

