

## MANIPAL UNIVERSITY

## DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2011

## SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY

Monday, April 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw labeled diagrams wherever appropriate.

1. Describe the pathogenesis and laboratory diagnosis of diphtheria. Add a note on its prophylaxis.

(16 marks)

2. Classify Hypersensitivity. Describe in detail type I hypersensitivity reactions.

(16 marks)

3. Write short notes on:

3A. Hot air oven

3B. Louis Pasteur and his contributions to Microbiology

3C. Flagellae

(6×3 = 18 marks)

4. Classify Herpes viruses. Describe the pathogenesis and laboratory diagnosis of herpes simplex viruses.

(16 marks)

5. Describe the life cycle and laboratory diagnosis of infections caused by *Taenia solium*. Add a note on cysticercosis.

(16 marks)

6. Write short notes on:

6A. Aspergillosis

6B. Rhinosporidiosis

6C. Adenoviruses

(6×3 = 18 marks)



## MANIPAL UNIVERSITY

**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2011**  
**SUBJECT: PAPER II: CLINICAL PATHOLOGY, HAEMATOLOGY, BLOOD BANKING**  
**& CYTOPATHOLOGY INCLUDING LABORATORY TECHNIQUES**

Tuesday, April 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw labeled diagrams wherever appropriate.**

1. Discuss the laboratory investigations of megaloblastic anaemias.  
(16 marks)
2. Discuss the etiopathogenesis and laboratory investigations of disseminated intravascular coagulation.  
(16 marks)
3. Write briefly on:
  - 3A. Crystalluria
  - 3B. Xanthochromia
  - 3C. Microhaematocrit(6×3 = 18 marks)
4. Discuss the utility of FNAC in the evaluation of solitary thyroid nodule.  
(16 marks)
5. Define and classify leukemias. Discuss the laboratory investigations of chronic myeloid leukemia.  
(16 marks)
6. Write short notes on:
  - 6A. Anticoagulants
  - 6B. Myeloperoxidase stain
  - 6C. Clot retraction test(6×3 = 18 marks)



## MANIPAL UNIVERSITY

### DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2011

#### SUBJECT: PAPER III: GENERAL & SYSTEMIC PATHOLOGY

Wednesday, April 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw diagrams wherever necessary.**

1. List the various causes of chronic inflammation. Describe the pathogenesis and morphologic features of tuberculosis.  
(16 marks)
2. Classify glomerulonephritis. Discuss the pathology of membranous glomerulonephritis.  
(16 marks)
3. Write briefly on:
  - 3A. Steatosis
  - 3B. Krukenberg tumor
  - 3C. Special stains used in the diagnosis of fungal infections(6×3 = 18 marks)
4. Classify breast tumors. Discuss the pathology of medullary carcinoma of the breast.  
(16 marks)
5. Discuss the etiopathogenesis of inflammatory bowel disease and describe morphologic features of ulcerative colitis.  
(16 marks)
6. Write short notes on:
  - 6A. Type III hypersensitivity
  - 6B. Meningioma
  - 6C. Morphology of Wilms tumour(6×3 = 18 marks)

