

## MANIPAL UNIVERSITY

## DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2009

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

Friday, April 03, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw labeled diagrams wherever appropriate.

1. Define Cirrhosis. Discuss the classification of Cirrhosis. Describe the gross and microscopic features of alcoholic cirrhosis. Add a note on the complications.

(16 marks)

2. Define emphysema. Discuss the classification, aetiopathogenesis, pathology and complications of Emphysema.

(16 marks)

3. Write briefly on:

3A. Laboratory findings in a case of suspected Myocardial infarction.

3B. Types of urolithiasis.

3C. Hashimoto's thyroiditis.

(6×3 = 18 marks)

4. Discuss the aetiopathogenesis and pathology of thrombus formation.

(16 marks)

5. Discuss the role of tumor suppressor genes in neoplasia.

(16 marks)

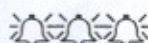
6. Write short notes on:

6A. Down syndrome.

6B. ASCUS.

6C. Types of melanoma.

(6×3 = 18 marks)



## MANIPAL UNIVERSITY

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – OCTOBER 2009

SUBJECT: PAPER III: GENERAL &amp; SYSTEMIC PATHOLOGY

Wednesday, October 07, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions. Draw labeled diagrams wherever appropriate.

1. Discuss the recent advances in the aetiopathogenesis of atherosclerosis. (16 marks)
2. Discuss the cutaneous manifestations of SLE. (16 marks)
3. Write briefly on:
  - 3A. Inflammatory Pseudotumour.
  - 3B. Variants of Papillary carcinoma thyroid.
  - 3C. Classification of Renal cell carcinoma based on histology and cytogenetics. (6×3 = 18 marks)
4. Describe in detail the etiopathogenesis of Diabetes mellitus. (16 marks)
5. Give the classification of ovarian neoplasms. Discuss the recent concepts in surface epithelial tumours. (16 marks)
6. Write short notes on:
  - 6A. Rb gene.
  - 6B. Gastrointestinal neuroendocrine lesions.
  - 6C. Testicular biopsy interpretation in infertility. (6×3 = 18 marks)



## MANIPAL UNIVERSITY

## DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2009

## SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY

Wednesday, April 01, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✗ Answer ALL the questions.

✗ Draw labeled diagrams wherever appropriate.

1. Classify Clostridia. Discuss the pathogenesis and laboratory diagnosis of Gas gangrene.  
(2+7+7 = 16 marks)
2. Describe the Basic structure of immunoglobulin. Describe in detail the structure and functions of immunoglobulin M.  
(8+4+4 = 16 marks)
3. Write short notes on:
  - 3A. Blood culture and common isolates from blood.
  - 3B. Disinfectants used in large hospitals.
  - 3C. Cutaneous anthrax.(6×3 = 18 marks)
4. Enumerate the viruses infecting liver. Discuss the structure laboratory diagnosis and prophylaxis of Hepatitis B Virus.  
(2+5+5+4 = 16 marks)
5. Classify sporozoa. Describe the life cycle and laboratory diagnosis of plasmodium vivax infection.  
(2+7+7 = 16 marks)
6. Write short notes on:
  - 6A. Fungal meningitis.
  - 6B. Sporotrichosis.
  - 6C. Laboratory diagnosis of toxoplasmosis.(6×3 = 18 marks)



## MANIPAL UNIVERSITY

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – OCTOBER 2009

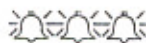
SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY

Monday, October 05, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL the questions. Illustrate your answers with neat labeled diagram.
- ✍ Write essay on:
1. Classify Clostridia. Discuss the pathogenesis and laboratory diagnosis of Tetanus.  
(4+6+6 = 16 marks)
  2. Classify Antigen antibody reactions. Discuss precipitation reactions with examples.  
(4+6+6 = 16 marks)
  3. Write short notes on:
    - 3A. Bacterial toxins
    - 3B. Mutation
    - 3C. Cold sterilization(6×3 = 18 marks)
  4. Describe the Morphology of HIV. Discuss the Pathogenesis and Laboratory diagnosis of AIDS.  
(4+6+6 = 16 marks)
  5. Classify intestinal nematodes. Discuss life cycle and laboratory diagnosis of Ancylostoma duodenale.  
(2+7+7 = 16 marks)
  6. Write short notes on:
    - 6A. Dermatophytes
    - 6B. Candidiasis
    - 6C. Larva migrans(6×3 = 18 marks)



## MANIPAL UNIVERSITY

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – OCTOBER 2009

SUBJECT: PAPER II: CLINICAL PATHOLOGY, HAEMATOLOGY, BLOOD BANKING  
& CYTOPATHOLOGY INCLUDING LABORATORY TECHNIQUES

Tuesday, October 06, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw labeled diagrams wherever appropriate.

1. Discuss the role of exfoliative cytology in the diagnosis of intraepithelial neoplasia of cervix.  
(16 marks)

2. Discuss the laboratory evaluation in Hepatitis B infection.  
(16 marks)

3. Write briefly on:

3A. Prolymphocytic leukemia.

3B. Laboratory diagnosis of paroxysmal nocturnal hemoglobinuria.

3C. Role of imprint preparations in lymphomas.

(6×3 = 18 marks)

4. Discuss the role of flow cytometry in the diagnosis of Acute leukemia.  
(16 marks)

5. Discuss the pathogenesis and laboratory diagnosis of sickle cell disease.  
(16 marks)

6. Write short notes on:

6A. Automation in urine analysis.

6B. Bernard Soulier syndrome.

6C. Relevance of CD 4 count in HIV disease monitoring.

(6×3 = 18 marks)

