

**MANIPAL ACADEMY OF HIGHER EDUCATION**

(Deemed University)

**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2006****SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY**

Monday, April 03, 2006

Time: 3 Hrs.

Max. Marks: 100

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✍ Answer all the questions.

✍ Draw labeled diagrams wherever appropriate.

1. Mention bacteria causing exudative sore throat. Explain pathogenesis, laboratory diagnosis and prophylaxis of diphtheria.

(2+5+5+4 = 16 marks)

2. Describe the structure and function of a Bacterial Cell.

(16 marks)

3. Write short notes on:

3A. Monoclonal antibody.

3B. Transduction.

3C. Anaphylaxis.

(6×3 = 18 marks)

4. Classify Arboviruses. Enumerate the arboviral infections found in India. Write a note on Dengue fever.

(3+5+8 = 16 marks)

5. Describe the life cycle and laboratory diagnosis of *Ascaris lumbricoides*.

(8+8 = 16 marks)

6. Write short notes on:

6A. Epstein Barr Virus.

6B. Superficial mycoses.

6C. Mycetoma.

(6×3 = 18 marks)

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**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2006****SUBJECT: PAPER II: CLINICAL PATHOLOGY, HAEMATOLOGY, BLOOD BANKING  
& CYTOPATHOLOGY INCLUDING LABORATORY TECHNIQUES**

Tuesday, April 04, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍ Answer all the questions.**  
**✍ Draw labeled diagrams wherever appropriate.**

1. Discuss the etiology & laboratory investigations in a patient suspected to have megaloblastic anaemia.  
(16 marks)
  
2. Classify acute leukaemias and discuss the diagnostic tests currently available.  
(16 marks)
  
3. Write briefly on:
  - 3A. Formed elements in urine.
  - 3B. Christmas disease.
  - 3C. Fresh frozen plasma.(6×3 = 18 marks)
  
4. Mention the various special stains used in surgical pathology and their utility in diagnosis.  
(16 marks)
  
5. Discuss the role of fine needle aspiration cytology in the diagnosis of thyroid lesions.  
(16 marks)
  
6. Write short notes on:
  - 6A. Papnet.
  - 6B. Occult blood in the stool.
  - 6C. Hypereosinophilic syndrome.(6×3 = 18 marks)

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**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2006****SUBJECT: PAPER III: GENERAL & SYSTEMIC PATHOLOGY**

Wednesday, April 05, 2006

Time: 3 Hrs.

Max. Marks: 100

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**✍ Answer all the questions. Draw diagrams wherever necessary.**

1. Discuss the pathogenesis and pathology of thrombosis.  
(16 marks)
  
2. Enumerate carcinogens. Discuss viral oncogenesis.  
(16 marks)
  
3. Write briefly on:
  - 3A. Complications of infective endocarditis.
  - 3B. Aneurysms.
  - 3C. Klinefelter syndrome.(6×3 =18 marks)
  
4. Discuss the etiopathogenesis and pathology of acute glomerulonephritis.  
(16 marks)
  
5. Classify testicular tumours. Discuss the pathology of seminoma testis.  
(16 marks)
  
6. Write short notes on:
  - 6A. Reed-Sternberg cell and its variants.
  - 6B. Histoid leprosy.
  - 6C. Morphology of hepatocellular carcinoma.(6×3 =18 marks)

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**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – DECEMBER 2006****SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY**

Monday, December 04, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer all the questions.**  
✍ **Draw labeled diagrams wherever appropriate.**

**SECTION – 'A'**

1. Enumerate sexually transmitted diseases. Describe the pathogenesis and laboratory diagnosis of gonorrhoea.  
(4+6+6 = 16 marks)
  
2. Describe bacterial virulence factors.  
(16 marks)
  
3. Write Short Notes on:
  - 3A. Agglutination
  - 3B. Structure of Immunoglobulin
  - 3C. Bacterial growth curve(6×3 = 18 marks)

**SECTION – 'B'**

4. Describe the pathogenesis, laboratory diagnosis and prophylaxis of Hepatitis B virus.  
(4+6+6 = 16 marks)
  
5. Describe the life cycle and laboratory diagnosis of *Enterobius vermicularis*.  
(8+8 = 16 marks)
  
6. Write Short Notes on:
  - 6A. Dermatophytes
  - 6B. Mucormycosis
  - 6C. BCG.(6×3 = 18 marks)

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& CYTOPATHOLOGY INCLUDING LABORATORY TECHNIQUES**

Tuesday, December 05, 2006

Time: 3 Hrs.

Max. Marks: 100

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**Answer all the questions.****Draw labeled diagrams wherever appropriate.**

1. Discuss the role of morphology and cytochemistry in the diagnosis of acute leukemias. (16 marks)
2. Discuss the laboratory investigation in bleeding disorder. (16 marks)
3. Write briefly on:
  - 3A. Reticulocyte count.
  - 3B. Selection criteria for blood donors.
  - 3C. Molecular pathology of hereditary spherocytosis. (6×3 = 18 marks)
4. Discuss the role of automation in cytology. (16 marks)
5. Classify anaemia. Discuss the laboratory diagnosis of iron deficiency anaemia. (16 marks)
6. Write short notes on:
  - 6A. Hematological effects of splenectomy
  - 6B. Urine sediments
  - 6C. FNAC of solitary nodule of liver. (6×3 = 18 marks)

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**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – DECEMBER 2006****SUBJECT: PAPER III: GENERAL & SYSTEMIC PATHOLOGY**

Wednesday, December 06, 2006

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer all the questions.**  
✍ **Draw diagrams wherever necessary.**

1. Define and classify edema. Describe the pathogenesis of edema due to heart failure.  
(16 marks)
2. Describe the etiopathogenesis and morphology of Colorectal carcinoma. Add a note on the staging.  
(16 marks)
3. Write briefly on:
  - 3A. Dystrophic calcification
  - 3B. Paraneoplastic syndromes
  - 3C. Reperfusion injury.(6×3 = 18 marks)
4. Discuss the etiopathogenesis and morphology of Hepatocellular carcinoma.  
(16 marks)
5. Enumerate Gestational trophoblastic disease. Discuss types, pathogenesis and morphology of Hydatidiform mole.  
(16 marks)
6. Write short notes on:
  - 6A. Medullary carcinoma thyroid
  - 6B. Psammoma bodies
  - 6C. Extra mammary Paget's disease.(6×3 = 18 marks)