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# MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

## DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – JULY 2005

### SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY

Monday, July 04, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions.

✍ Draw labeled diagrams wherever appropriate.

1. Classify streptococcus. Describe the pathogenesis, laboratory diagnosis and lesions produced by Group A Streptococcus including post streptococcal complications.

(1+10+5 = 16 marks)

2. Describe the structure and functions of bacterial cell wall.

(8+8 = 16 marks)

3. Write short notes on:

3A. Interleukins.

3B. Monoclonal antibodies.

3C. Q-fever.

(6×3 = 18 marks)

4. Describe the laboratory diagnosis and prophylaxis of Rabies.

(8+8 = 16 marks)

5. Describe the life cycle and laboratory diagnosis of Echinococcus granulosus.

(8+8 = 16 marks)

6. Write short notes on:

6A. Cytomegalovirus.

6B. Mycetoma.

6C. Superficial fungal infections.

(6×3 = 18 marks)

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**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – JULY 2005****SUBJECT: PAPER II: CLINICAL PATHOLOGY, HAEMATOLOGY, BLOOD BANKING  
& CYTOPATHOLOGY INCLUDING LABORATORY TECHNIQUES**

Tuesday, July 05, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the role of bone marrow aspiration and its applications in haematological disorders.  
(16 marks)
  
2. Discuss the laboratory investigations for megaloblastic anaemia.  
(16 marks)
  
3. Write short notes on:
  - 3A. Sickling test.
  - 3B. HCG.
  - 3C. Polycythemia vera.(6×3 = 18 marks)
  
4. Classify leukemias and discuss the pathology of acute lymphoblastic leukaemia (ALL).  
(16 marks)
  
5. Discuss staining methods of mucin of gastrointestinal tract.  
(16 marks)
  
6. Write short notes on:
  - 6A. Cross matching of blood
  - 6B. Frozen section
  - 6C. Liver function test.(6×3 = 18 marks)



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# MANIPAL ACADEMY OF HIGHER EDUCATION

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## DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – JULY 2005

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

Wednesday, July 06, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions. Draw diagrams wherever necessary.

1. Classify ovarian tumors and discuss the pathology of germ cell tumors. (16 marks)
  
2. Discuss the role of chemical mediators in inflammation. (16 marks)
  
3. Write short notes on:
  - 3A. Seminoma
  - 3B. Pheochromocytoma
  - 3C. Meningioma – variants.(6×3 = 18 marks)
  
4. Classify gastric carcinomas. Discuss its aetiopathogenesis and morphology. (16 marks)
  
5. Discuss the metastatic cascade. (16 marks)
  
6. Write short notes on:
  - 6A. Free radical injury.
  - 6B. Ghon's focus.
  - 6C. Calcification.(6×3 = 18 marks)

(6×3 = 18 marks)

**MANIPAL ACADEMY OF HIGHER EDUCATION**

(Deemed University)

**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – DECEMBER 2005****SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY**

Monday, December 05, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Draw labeled diagrams wherever appropriate.**

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

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

2. Define and classify sterilization. Explain sterilization by moist heat.

(1+4+11 = 16 marks)

3. Write short notes on:

3A. Anaphylaxis.

3B. Antibiotic sensitivity tests.

3C. Widal test.

(6×3 = 18 marks)

4. Describe the pathogenesis and prophylaxis of Hepatitis B virus.

(10+6 = 16 marks)

5. Describe the life cycle and laboratory diagnosis of *Ankylostoma duodenale*.

(10+6 = 16 marks)

6. Write short notes on:

6A. *Candida albicans*.

6B. *Histoplasma capsulatum*.

6C. MMR vaccine.

(6×3 = 18 marks)

**MANIPAL ACADEMY OF HIGHER EDUCATION**

(Deemed University)

**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – DECEMBER 2005****SUBJECT: PAPER II: CLINICAL PATHOLOGY, HAEMATOLOGY, BLOOD BANKING  
& CYTOPATHOLOGY INCLUDING LABORATORY TECHNIQUES**

Tuesday, December 06, 2005

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the aetiopathogenesis and complication of thrombosis.  
(16 marks)
  
2. Discuss the laboratory investigations in a case of bleeding disorder.  
(16 marks)
  
3. Write briefly on:
  - 3A. Urinary casts.
  - 3B. Flow cystometry.
  - 3C. Paraneoplastic syndrome.(6×3 = 18 marks)
  
4. Discuss the aetiopathogenesis, pathology and complications of infective endocarditis.  
(16 marks)
  
5. Discuss the pathology of germ cell tumours of testis.  
(16 marks)
  
6. Write short notes on:
  - 6A. Dysmyelopoietic disorder.
  - 6B. Artificial blood.
  - 6C. Role of cytology in intraoperative diagnosis.(6×3 = 18 marks)

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DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – DECEMBER 2005

SUBJECT: PAPER III: GENERAL & SYSTEMIC PATHOLOGY

Wednesday, December 07, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions. Draw diagrams wherever necessary.

1. Discuss viral carcinogenesis. (16 marks)
2. Define atherosclerosis. Discuss the etiopathogenesis, morphology and complications of atherosclerosis. (16 marks)
3. Write short notes on:
  - 3A. Reed-Sternberg cells.
  - 3B. Oxygen free radicals.
  - 3C. Fite-faraco stain.(6×3 = 18 marks)
4. Discuss briefly the mechanism and the significance of type II Hypersensitivity reactions. (16 marks)
5. Classify and briefly discuss the morphology of cerebellar tumors. (16 marks)
6. Write short notes on:
  - 6A. Gas embolism.
  - 6B. Chemical mediators of inflammation.
  - 6C. Carcinoid syndrome.(6×3 = 18 marks)

(6×3 = 18 marks)