

MANIPAL UNIVERSITY

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – OCTOBER 2011

SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY

Monday, October 03, 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 *Mycobacterium tuberculosis*.
(8+8 = 16 marks)
2. Define Innate Immunity. Describe the factors affecting Innate Immunity. Write differences between active and passive immunity.
(2+8+6 = 16 marks)
3. Write short notes on:
 - 3A. Sterility tests for autoclave
 - 3B. Antibiotic sensitivity tests
 - 3C. Nosocomial infection(6×3 = 18 marks)
4. Describe pathogenesis and laboratory diagnosis of Rabies. Write briefly about Neural vaccines.
(6+7+3 = 16 marks)
5. Describe the life cycle, pathogenesis and laboratory diagnosis of *E. histolytica*.
(6+6+4 = 16 marks)
6. Write short notes on:
 - 6A. Larva migrans
 - 6B. Cryptococcosis
 - 6C. Aspergillosis(6×3 = 18 marks)



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

Tuesday, October 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw labeled diagrams wherever appropriate.**

1. Classify hemolytic anemias and discuss laboratory diagnosis of Immune mediated hemolytic anemias.
(16 marks)

2. Discuss in detail about vonWillebrand disease.
(16 marks)

3. **Write briefly on:**
 - 3A. Osmotic Fragility
 - 3B. Blood Substitutes
 - 3C. Microangiopathic Hemolytic Anaemia(6×3 = 18 marks)

4. Discuss the role of FNAC in lymphadenopathies.
(16 marks)

5. Discuss the Papanicolaou stain in detail.
(16 marks)

6. **Write briefly on:**
 - 6A. Sideroblast
 - 6B. Agranulocytosis
 - 6C. Leukoerythroblastic Reaction(6×3 = 18 marks)



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DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – OCTOBER 2011

SUBJECT: PAPER III: GENERAL & SYSTEMIC PATHOLOGY

Thursday, October 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw diagrams wherever necessary.

1. Discuss healing by second intention. Add a note on factors influencing wound healing.

(16 marks)

2. Discuss aetiopathogenesis and morphology of colorectal carcinoma.

(16 marks)

3. Write briefly on:

3A. Delayed hypersensitivity

3B. Differences between tuberculoid and lepromatous leprosy

3C. Niemann Pick disease

(6×3 = 18 marks)

4. Discuss the role of oncogenes in carcinogenesis.

(16 marks)

5. Classify ovarian tumors. Describe the morphologic features of germ cell tumours.

(16 marks)

6. Write short notes on:

6A. Cyanotic congenital heart disease

6B. Marfan syndrome

6C. Adult stem cells

(6×3 = 18 marks)

