

Reg. No.

MANIPAL UNIVERSITY

DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2010
SUBJECT: PAPER II: CLINICAL PATHOLOGY, HAEMATOLOGY, BLOOD BANKING
& CYTOPATHOLOGY INCLUDING LABORATORY TECHNIQUES

Tuesday, April 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Discuss the laboratory diagnosis of dyserythropoietic anaemias. (16 marks)
2. Classify and discuss the laboratory diagnosis of congenital hemolytic anaemias. (16 marks)
3. Write briefly on:
 - 3A. Bombay blood group
 - 3B. Sudan black stain in hematologic malignancies
 - 3C. Occult blood in stool(6×3 = 18 marks)
4. Discuss the 2001 Bethesda classification and its deficiencies. (16 marks)
5. Discuss tissue arrays and their use. (16 marks)
6. Write short notes on:
 - 6A. Platelet substitutes
 - 6B. Acute promyelocytic leukemia
 - 6C. Factor V Leiden(6×3 = 18 marks)



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DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2010

SUBJECT: PAPER I: MICROBIOLOGY INCLUDING PARASITOLOGY

Monday, April 05, 2010

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 cholera.

(16 marks)

2. Describe the methods of genetic transfer among bacteria. What is its significance?

(16 marks)

3. Write short notes on:

3A. Monoclonal antibodies

3B. CSSD

3C. Anaphylaxis

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(6×3 = 18 marks)

4. Describe the pathogenesis and laboratory diagnosis of HIV infection. Add a note on its prophylaxis.

(16 marks)

5. Describe the life cycle of *Leishmania donovani*. Add a note on the pathogenesis, laboratory diagnosis and prophylaxis of Kala-azar.

(16 marks)

6. Write short notes on:

6A. Bacteriophages

6B. Cryptococcosis

6C. MMR vaccine

(6×3 = 18 marks)



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DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2010

SUBJECT: PAPER III: GENERAL & SYSTEMIC PATHOLOGY

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw diagrams wherever necessary.

1. Discuss the role of growth factors in inflammation.

(16 marks)

2. Discuss the pathogenesis of amyloidosis.

(16 marks)

3. Write short notes on:

3A. Pigmented villonodular synovitis

3B. p53 gene

3C. Lyon hypothesis

(6×3 = 18 marks)

4. Discuss the role H.pylori in peptic ulcer disease.

(16 marks)

5. Classify testicular germ cell tumors. Discuss the various nonseminomatous germ cell tumors.

(16 marks)

6. Write short notes on:

6A. Pathogenesis of type I diabetes mellitus

6B. Giant cell tumor of bone

6C. Membranous glomerulopathy

(6×3 = 18 marks)



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

Thursday, April 02, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw labeled diagrams wherever appropriate.

1. Discuss the differential diagnosis of prolonged APTT and the algorithm to evaluate the same.
(16 marks)
2. Discuss the role of FNAC in evaluation of non neoplastic lesions of lymph node.
(16 marks)
3. Write briefly on:
 - 3A. Microangiopathic hemolytic anemia.
 - 3B. Fixatives used in cytology.
 - 3C. Reticulocytes in health and disease.(6×3 = 18 marks)
4. Discuss the principle and interpretation of cellulose acetate electrophoresis in hemoglobinopathies.
(16 marks)
5. Discuss the laboratory investigations and criteria for diagnosis of Myeloma.
(16 marks)
6. Write short notes on:
 - 6A. Revised Bethesda system for cervicovaginal cytology.
 - 6B. Plasma expanders.
 - 6C. Methods for Antinuclear antibody assay.(6×3 = 18 marks)

