

MANIPAL UNIVERSITY**PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2013****SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING BASIC MICROBIOLOGY**

Tuesday, April 02, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL the questions. Draw labeled diagrams wherever appropriate.
- ✍ Answer both sections A & B in separate answer books.

SECTION- A: GENERAL PATHOLOGY (50 marks)

1. Classify chemical mediators of inflammation. Discuss the generation of Arachdonic acid metabolites and their role in inflammation. (16 marks)
2. Tumor suppressor genes and their role in carcinogenesis. (16 marks)
3. Answer briefly:
 - 3A. Anti-phospholipid antibody syndrome
 - 3B. Pigments encountered in histopathology
 - 3C. Mechanism of intrinsic pathway of Apoptosis

(6×3 = 18 marks)

SECTION – B : BASIC MICROBIOLOGY (50 marks)

4. Discuss pathogenesis and laboratory diagnosis of HIV infection. (8+8 = 16 marks)
5. Enumerate sporozoal parasites. Discuss pathogenesis and laboratory diagnosis of falciparum malaria. (2+6+8 = 16 marks)
6. Write short notes on the following:
 - 6A. Cryptococcosis
 - 6B. Sputum examination for acid fast bacilli
 - 6C. Transport media used in clinical microbiology laboratory

(6×3 = 18 marks)



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PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2013

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY AND CYTOLOGY

Wednesday, April 03, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw labeled diagrams wherever appropriate.

1. Classify Hodgkin disease and discuss the recent advances in the pathology and pathogenesis. Add a note on prognostic significance of classification.

(4+10+2 = 16 marks)

2. Discuss the mechanisms involved in glomerular injury of acute glomerulonephritis.

(16 marks)

3. Write short notes on:

3A. Pathogenesis of gall stones

3B. MEN

3C. Angiomyolipoma

(6×3 = 18 marks)

4. Discuss Gestational Trophoblastic diseases.

(16 marks)

5. Discuss the role of cytology in the diagnosis of breast lesions.

(16 marks)

6. Write short notes on:

6A. Fixatives in cytology

6B. Role of cytology in diagnosis of CIN

6C. Indices for hormonal evaluation of squamous cells on vaginal smear

(6×3 = 18 marks)



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PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2013

SUBJECT: PAPER III: HAEMATOLOGY, CLINICAL PATHOLOGY AND
CLINICAL BIOCHEMISTRY

Thursday, April 04, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Give the WHO classification of MDS and discuss its laboratory diagnosis. (16 marks)
2. Give the different methods of Hb electrophoresis with their principles. Discuss in brief the lab diagnosis of Hemoglobinopathies. (16 marks)
3. Answer briefly:
 - 3A. Automation in urine examination
 - 3B. Factors affecting ESR
 - 3C. Common cytogenetic abnormalities associated with AML(6×3 = 18 marks)
4. How you biochemically evaluate a person with diabetes mellitus? (16 marks)
5. Discuss the hematological manifestations of SLE. (16 marks)
6. Answer briefly:
 - 6A. Explain various pre analytical errors in lab medicine.
 - 6B. Autologous blood transfusion
 - 6C. Principle and interpretation of APTT(6×3 = 18 marks)

