

**MANIPAL UNIVERSITY****PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2016****SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING BASIC MICROBIOLOGY**

Monday, April 18, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Draw labeled diagrams wherever appropriate.**
- ✍ **Write sections A and B in separate answer booklets.**

**SECTION- A: GENERAL PATHOLOGY (50 MARKS)**

1. Discuss the role of endothelial and leukocyte adhesion molecules in the inflammatory response.
- (15 marks)

2. **Answer briefly:**

- 2A. Mechanism of thrombus formation
- 2B. Reactive systemic amyloidosis
- 2C. Factors influencing wound healing
- 2D. Role of retinoblastoma gene in carcinogenesis
- 2E. Genetic defect, types and morphology of Gaucher disease

(7 marks × 5 = 35 marks)

**SECTION- B: BASIC MICROBIOLOGY (50 MARKS)**

3. Describe the pathogenesis and laboratory diagnosis of infections caused by *Staphylococcus aureus*.
- (7+8 = 15 marks)

4. **Answer briefly:**

- 4A. Laboratory diagnosis of dermatophytosis
- 4B. Complications of falciparum malaria
- 4C. Universal precautions in the laboratory
- 4D. Type III hypersensitivity reaction
- 4E. Epstein Barr virus

(7 marks × 5 = 35 marks)



**MANIPAL UNIVERSITY****PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2016****SUBJECT: PAPER II: SYSTEMIC PATHOLOGY AND CYTOLOGY**

Tuesday, April 19, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw labeled diagrams wherever appropriate.**

✍ **Essay:**

1. Discuss the etiopathogenesis, pathology and clinical features of gastric carcinoma.  
(4+9+2 = 15 marks)
  
2. Discuss the cytology of cervical squamous intraepithelial lesions.  
(15 marks)
  
3. **Answer briefly:**
  - 3A. Morphology of ovarian teratoma
  - 3B. Morphology of classic papillary carcinoma thyroid
  - 3C. Pathology of giant cell tumor of bone
  - 3D. Prognostic factors in melanoma
  - 3E. Pathology and pathogenesis of nodular prostatic hyperplasia
  - 3F. Pathogenesis of gall stones
  - 3G. Morphology of acute poststreptococcal glomerulonephritis
  - 3H. Pathology of berry aneurysm
  - 3I. Bronchoalveolar lavage cytology in bronchogenic carcinoma
  - 3J. Differences between exudative and transudative pleural effusions  
(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2016****SUBJECT: PAPER III: HAEMATOLOGY, CLINICAL PATHOLOGY AND CLINICAL BIOCHEMISTRY**

Wednesday, April 20, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw labeled diagrams wherever appropriate.**

✍ **Essay:**

1. Define and classify leukemia. Describe the cytogenic abnormality and blood picture of chronic myeloid leukemia.

(2+3+4+6 = 15 marks)

2. Role of quality control and quality assurance in clinical pathology laboratory.

(15 marks)

3. **Answer briefly:**

3A. Apheresis

3B. Differential diagnosis of microcytic hypochromic anemia

3C. Von Willebrand disease

3D. Monoclonal gammopathy of undetermined significance

3E. HbS

3F. Serum tumour markers

3G. Microalbuminuria

3H. Prothrombin time

3I. PML/RARA translocation

3J. Hematocrit

(7 marks × 10 = 70 marks)

