Reg. No.	

MANIPAL ACADEMY OF HIGHER EDUCATION

PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2019 SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING BASIC MICROBIOLOGY

Tuesday, April 02, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Z Illustrate your answers with diagrams, flow charts, tables etc. wherever appropriate.
- Write sections A and B in separate answer booklets.

SECTION - A: GENERAL PATHOLOGY (50 MARKS)

1. Discuss the pathways of spread of tumor.

(15 marks)

- 2. Write short notes on:
- 2A. Cytokines in inflammation.
- 2B. Pathogenesis of HIV infection and AIDS including CNS involvement.
- 2C. Niemann-Pick disease.
- 2D. Necroptosis and Pyroptosis.
- 2E. Virchow triad.

 $(7 \text{ marks} \times 5 = 35 \text{ marks})$

SECTION - B: BASIC MICROBIOLOGY (50 MARKS)

3. Describe the pathogenesis and laboratory diagnosis of Rabies.

(8+7 = 15 marks)

- 4. Write short notes on:
- 4A. Laboratory diagnosis of Pulmonary tuberculosis.
- 4B. Laboratory diagnosis of HIV infection.
- 4C. Type I Hypersensitivity.
- 4D. Pathogenesis and laboratory diagnosis of Cryptococcal meningitis.
- 4E. Bacillary dysentery.

 $(7 \text{ marks} \times 5 = 35 \text{ marks})$

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MANIPAL ACADEMY OF HIGHER EDUCATION

PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2019 SUBJECT: PAPER II: SYSTEMIC PATHOLOGY AND CYTOLOGY

Wednesday, April 03, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory
- ℤ Illustrate your answers with diagrams, flow charts, tables etc. wherever appropriate
- Essay:
- 1. Classify Hodgkin's lymphoma. Discuss the clinical, morphological and immunohistochemical features of the different variants.

(15 marks)

2. Discuss the role of Cytology in the diagnosis of Lung malignancy.

(15 marks)

- 3. Write short notes on the following:
- 3A. Wilm's tumor.
- 3B. Glioblastoma multiforme.
- 3C. H Pylori and gastric lymphoma.
- 3D. Causes of Portal hypertension.
- 3E. Premalignant lesions in the breast.
- 3F. Pathogenesis of Type II diabetes Mellitus.
- 3G. Immune mediated blistering skin disorders.
- 3H. Papillary urothelial neoplasm of undetermined malignant potential.
- 3I. Cytopathology of Medullary carcinoma of thyroid.
- 3J. Automation in Cytology.

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$



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MANIPAL ACADEMY OF HIGHER EDUCATION

PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION - APRIL 2019

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

Thursday, April 04, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- ℤ Illustrate your answers with diagrams, flow charts, tables etc. wherever appropriate
- Essay:
- 1. Classify von Willebrand disease with specific features of each. Discuss the lab diagnosis of von Willebrand disease.

(15 marks)

2. Describe the various biochemical tests available to evaluate a person with jaundice.

(15 marks)

- 3. Write short notes on the following:
- 3A. RBC indices and their implications in hematology.
- 3B. Newer methods in diagnosis of malaria.
- 3C. Significance of mixing studies in a coagulation disorder.
- 3D. Briefly explain methods of urine collection and preservation.
- 3E. Anticoagulants used in hematology.
- 3F. Principle and interpretation of osmotic fragility test.
- 3G. Principles of automation in cell counters.
- 3H. Preparation of various blood components and their uses.
- 3I. Semen analysis.
- 3J. Leukoerythroblastic reaction.

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$