D No		1	
Reg. No.			

MANIPAL UNIVERSITY

PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2017 SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING BASIC MICROBIOLOGY

Monday, April 03, 2017

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 pathways of spread of malignant tumors. Add a note on the metastatic cascade.

(6+9 = 15 marks)

- Answer briefly:
- 2A. Type III hypersensitivity
- 2B. Physical and chemical nature of amyloid
- 2C. Klinefelter syndrome
- 2D. Role of complement in inflammation
- 2E. Definition and pathogenesis of thrombus formation

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

SECTION - B: BASIC MICROBIOLOGY (50 MARKS)

3. Describe the pathogenesis and laboratory diagnosis of cholera.

(7+8 = 15 marks)

- 4. Answer briefly:
- 4A. Trichomonas vaginalis
- 4B. Varicella Zoster virus
- 4C. Laboratory diagnosis of candidiasis
- 4D. Role of PCR in the diagnosis of microbial diseases
- 4E. Chemical sterilization

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



	T		
Reg. No.			

MANIPAL UNIVERSITY

PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION - APRIL 2017 SUBJECT: PAPER II: SYSTEMIC PATHOLOGY AND CYTOLOGY

Tuesday, April 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory. Ø
- Illustrate your answers with diagrams, flow charts, tables etc. wherever appropriate. Ø
- Essay: Ø
- Discuss the role of immunofluorescence in Crescentic Glomerulonephritis. 1.

(15 marks)

Discuss the pitfalls in the diagnosis of Warthin tumor on cytology. 2.

(15 marks)

- Write short notes on the following: 3.
- Gastrointestinal Stromal Tumor 3A.
- 3B. Merkel Cell Carcinoma
- 3C. Gleason Scoring system
- 3D. Differential diagnosis of vegetations in the heart
- 3E. Role of cytokeratins in diagnosis of malignant tumors
- 3F. Brenner tumor of the ovary
- 3G. Histoid Leprosy
- 3H. Benign cartilage producing tumors of the bone
- 3I. Thin Prep
- Role of Fine needle Aspiration Cytology in benign breast disease 3J.

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

Reg. No.						
	the state of the s	Contract Contract		 	_	

MANIPAL UNIVERSITY

PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2017

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

Wednesday, April 05, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Essay:
- 1. Discuss the pathogenesis and laboratory diagnosis of anemia of chronic disease.

(7+8 = 15 marks)

2. Classify jaundice. Describe the investigations to differentiate types of jaundice.

(4+11 = 15 marks)

- 3. Answer briefly:
- 3A. Hemophilia
- 3B. Estimation and significance of packed cell volume
- 3C. Acute promyelocytic leukemia
- 3D. Levey Jenninges Chart
- 3E. Philadelphia chromosome
- 3F. Types, principles and applications of Coombs test
- 3G. Hemoglobin electrophoresis
- 3H. Casts in urine
- 31. International normalized ratio
- 3J. Laboratory investigations in sickle cell anemia

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