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MANIPAL UNIVERSITY

PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION – APRIL 2014 SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING BASIC MICROBIOLOGY

Tuesday, April 01, 2014

Time: 14:00 - 17:00 Hrs.

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

SECTION- A: GENERAL PATHOLOGY (50 marks)

1. Describe the role of free radicals in cell injury.

(16 marks)

(16 marks)

- 2. Describe the pathogenesis of septic shock.
- 3. Answer briefly:
- 3A. Vascular endothelial growth factor.
- 3B. Chronic rejection of kidney allograft.
- 3C. Retinoblastoma gene.

 $(6 \times 3 = 18 \text{ marks})$

PART - B : BASIC MICROBIOLOGY (50 marks)

4. Enumerate bacteria causing acute pyogenic meningitis. Discuss the laboratory work up for diagnosis of acute pyogenic meningitis.

(2+14 = 16 marks)

5. Discuss the pathogenesis and laboratory diagnosis of hepatitis B virus infection.

(8+8 = 16 marks)

 $(6 \times 3 = 18 \text{ marks})$

6. Write short notes on the following:

- 6A. Delayed hypersensitivity reaction.
- 6B. Blood culture Indications, brief method and interpretation.
- 6C. Antimicrobial susceptibility testing.



Max. Marks: 100

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PG	DIPLOMA IN CLINICAL PATHO	LOGY (DC	P) E	XA	MIN	IAT	ION	I - A	PR	IL 2	014
	SUBJECT: PAPER II: SYSTEM											
	Wednesda	y, April	02, 2	.014								
Time	e: 14:00 – 17:00 Hrs.								Max	. Ma	rks:	100
ø	Answer ALL the questions.											
ø	Draw labeled diagrams wherever appr	ropriate.										
1.	Discuss cystic lesions of the kidney.	Healt	h S	ciei	nce	s Li	bra	ry		(1	6 ma	arks)
2.	Discuss the pathogenesis of atherosclerosis.											
	1 0						(16 marks)					
3.	Write briefly:											
3A.	Kaposi sarcoma											
3B.	Barrett esophagus											
3C.	Solitary fibrous tumor											
									(6×:	3 = 1	8 m	arks)
4.	Discuss the molecular model for the evo	lution of	colo	rect	al car	ncer						
ч.	Discuss the molecular model for the evo	iution oi	0010	1000						(1	6 m	arks)
5.	Discuss the various cytomorphological f	eatures c	of sal	ivar	y gla	nd le	esion	s.				
										(1	6 m	arks)
6.	Write briefly:											
6A.	Sample adequacy assessment in cervical	cytolog	у.				*					
6B.	Radiation associated cytological changes	s in the f	emal	e ge	nital	tract	t.			τ.		
6C.	Automation in cytology.								(Ex	2 - 1	0	ortes
									(0×	c = 1	ð m	arks)

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PG DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION - APRIL 2014 SUBJECT: PAPER III: HAEMATOLOGY, CLINICAL PATHOLOGY AND CLINICAL BIOCHEMISTRY

Thursday, April 03, 2014

Time: 14:00 - 17:00 Hrs.

Answer ALL the questions. R

- Draw labeled diagrams wherever appropriate. ø
- Discuss normal iron metabolism. Enumerate the stages and lab diagnosis of Iron deficiency 1. anemia.
- Discuss the methods of diagnosis of Malaria. Add a note on the advantages and disadvantages 2. of each method.

(16 marks)

(16 marks)

3. Answer briefly:

3A. Lab diagnosis of Hemophilia A

3B. CSF in health and disease

- 3C. Bence Jones protein
- Explain in detail the biochemical evaluation of renal function. 4.

(16 marks)

 $(6 \times 3 = 18 \text{ marks})$

Discuss the relevance of red cell indices including RDW in evaluating a patient with anemia. 5. (16 marks)

- Answer briefly: 6.
- 6A. Platelet transfusion
- 6B. Ion selective electrodes
- Microangiopathic hemolytic anemia 6C.

 $(6 \times 3 = 18 \text{ marks})$

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Max. Marks: 100

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