

SY-4572

Seat No.____

Diploma in Medical Laboratory Technology Examination

April / May - 2006

General Microbiology, Serology & Histopathology: Paper – III

Time: 3 Hours [Total Marks: 100

Instructions: (1) Figures on right side indicate full marks.

- (2) Draw neat and clean diagrams wherever necessary.
- (3) Write section-I and section-II in **separate** answer-books.

SECTION - I

1 Write short notes on : (any three)

18

- (a) Different theories for Gram's staining
- (b) Motility of bacteria
- (c) Methods of isolating pure cultures
- (d) Chemical disinfectants.
- 2 Write short notes on: (any three)

18

- (a) IMVIC test
- (b) Serum widal test
- (c) Elek's gel precipitation test
- (d) Contribution of Robert Koch in field of microbiology.
- **3** Write answers in **2-3** sentences:

14

- (a) Differences between Prokaryotes and Eukaryotes.
- (b) Name three techniques used for anaerobiosis.
- (c) Sterilizing temperatures used in Inspissator.
- (d) Common features of Enterobacteriaceae.
- (e) Define transport media. Give two examples.
- (f) Name three spore bearing bacteria.
- (g) Significance of Agar-agar in laboratory media.

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SECTION - II

1	Wri	te short notes on : (any three)	18
	(a)	Laboratory diagnosis of typhoid fever	
	(b)	Antibiotic sensitivity testing	
	(c)	Universal safety precautions taken in microbiology laboratory	
	(d)	Blood agar.	
2	Wri	te short notes on : (any three)	18
	(a)	Superficial mycoses	
	(b)	Sharpening of microtome knife	
	(c)	Fixation of tissue in biopsy specimen	
	(d)	Describe procedure of H and E staining.	
3	Wri	te answers in 2-3 sentences:	14
	(a)	Name four bacteria causing diarrhoeal diseases.	
	(b)	Name two decalcification methods used in histopathology.	
	(c)	What is significant bacteriuria?	
	(d)	Enzymes and substrates used in ELISA tests.	
	(e)	Name four special stains used in histopathology.	
	(f)	Name four bacteria responsible for meningitis.	
	(g)	Current schedule for immunization.	

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