d) Plasma proteins.

Cleaning and calibration of glassware.

### P965

# [3858] - 1 D.M.L.T. BIOCHEMISTRY

Time: 3 Hours   [Max. Marks:					
		ns to the candidates:			
	<i>1)</i>	All questions are compulsory.	V		
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.			
	3)	Figures to the right indicate full marks.			
Q1)	Desc	cribe glucose tolerance test. Write a note on renal glycosuria.	[15]		
Q2)	Expl	ain the principle, types and applications of electrophoresis.	[15]		
Q3)	Desc	cribe any two methods for blood urea estimation with principle.	[15]		
Q4)	Define enzymes. Classify enzymes with examples. Name any four enzymes				
	used	for diagnostic purpose.	[15]		
Q5)	Writ	e short notes on: (Any Four)	[20]		
	a)	Write principle of paper chromatography.			
	b)	Estimation of blood urea.			
	c)	Blood buffers.			
	d)	CSF analysis.			
	e)	Serum Bilirubin.			
Q6)	6) Write short notes on: (Any Four)				
	a)	Urine analysis.			
	b)	Incubator and oven.			
	c) Preparation of normal, molar, percent solution.				



#### P966

### [3858] - 2 D.M.L.T. **MICROBIOLOGY** (Paper - II)

		` <b>.</b>		
	e:3 E	[Max. Marks : 100		
Insti	ructio 1) 2) 3) 4)	ons to the candidates:  All questions are compulsory, total questions 6.  Figures to right indicate full marks.  Draw diagrams wherever necessary.  Your answers will be valued as whole.		
Q1)		ne sterilization and disinfection. Enumerate and state pr		
	disii	nfectants. Give their uses.	[15]	
Q2)	Name organisms causing wound infections. How is pus sample collected, transported and processed in microbiology laboratory? [15]			
Q3)	Witl	n a neat labeled diagram of HIV yirus discuss transmis	sion and laboratory	
	diag	nosis of HIV infection.	[15]	
Q4)	Nan	ne intestinal nematodes. Describe life cycle and labo	oratory diagnosis of	
	Asc	aris lumbricoides infestation.	[15]	
Q5)	Writa) a) b)	te short notes on any four.  ZN stain  MacConkey medium	[20]	
	c)	Autoclave		
	d)	Use of personal protective devices in laboratory		
	e)	Bacterial growth curve		
<i>Q6</i> )	Wri	te short notes on any four:	[20]	
	a)	Dertmatophytes		
•	<b>b</b> )	Hepatitis B virus pathogenesis and prophylaxis		

Polio vaccines c)

- Bile stained eggs in stool d)
- Media used in mycology e)



P967

# [3858] - 3D.M.L.T. **PATHOLOGY** (Paper - III)

[Max. Marks: 100 Time: 3 Hours]

Instructions to the candidates:

- All questions are compulsory.
- *2*) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- Q1) Describe types of microtomes & microtome knives. Add a note on knife sharpening. [15]
- Q2) Define anemia. Classify them. Describe investigations to confirm the diagnosis of iron deficiency anemia. [15]
- Q3) Describe physical & chemical examination of urine. [15]
- Q4) Enumerate criteria for selection of a blood donor & enumerate indications for blood transfusion. [15]
- **Q5)** Write short notes on any four

[20]

- Frozen section a)
- Formalin b)
- Methods of blood grouping c)
- P.A.S. staining d)
- e) Transfúsion transmitted diseases
- *Q6)* Write short notes on any four:

[20]

- Sickling test
- Coombs test
- c) Reticulocyte count
- E.S.R. d)
- Semen analysis e)

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