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a) Decrease in urine volume < 2500 ml/24 hrs

c) Decrease in urine volume < 1000 ml/24 hrs

a) Red cells

(viii) Most of the volume of normal human blood is composed of :



b) Complete suppression of urine formation as

d) Abnormal increase in urine volume > 2.500

in renal failure

ml/24 hrs

b) Hemoglobin



BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme – DMLT-2021/DMLT-2023/DMLT-2024 Course Name – Clinical Pathology & Basic Hematology Course Code - DMLT102 (Semester I)

Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A (Multiple Choice Type Question) 1 x 15=15 Choose the correct alternative from the following: (i) For Glucose test which Vial is required? a) EDTA Vial b) Citrate Vial c) Fluoride Vial d) No additive Vial (ii) Pre Heparinized syringe is used in which type of Collection? a) Venous Blood Collection b) Heel prick method c) Arterial Blood Collection d) Bone marrow sampling (iii) Choose the Objective lens used in Compound Microscope for Oil immersion method? a) 4x b) 10x c) 40x d) 100x (iv) Which Anticoagulant is used Haemoglobin Estimation? a) 3.8% Tri Sodium Citrate b) EDTA c) Sodium oxalate d) 3.2% Sodium Citrate (v) Cells like Blood, Sperm are counted in which type of Instrument? a) CBC Analyzer b) Colorimeter c) Neubauer Chamber d) Electrolyte Analyzer (vi) Which WBC is considered as the Largest Leukocyte a) Lymphocyte b) Neutrophil d) Basophil c) Monocyte (vii) A Patient may be interpreted as "Oliguria" when there is

	\ ~ .	J) 14/h:4a a-lla	LIBRARY			
1:	c) Plasma	d) White cells	Brainware Univers	ity		
(IX	Which Anticoagulant is used for LFT, KFT & Lipid	2	erasat, Kelkata -700	1125		
	a) Trisodium Citrate c) Sodium Fluoride	b) EDTA d) No Additive				
(v)	Glycosuria is related to	d) No Additive				
(^/		of the filtration rate				
	a) Presence of Glycogen in urinec) Presence of Sugar in Urine	d) Presence of Glyco	late crystal			
(xi	xi) The presence of which type of cells in urine sediment is suggestive of a urinary tract					
	infection (UTI)?					
	a) Epithelial cells	b) Erythrocytes				
	c) Leukocytes	d) Squamous cells				
(xii) Which of the following microscopic findings in u	rine may indicate ren	al damage or			
	glomerular disease?					
	a) Hyaline casts	b) Waxy casts				
	c) Squamous epithelial cells	d) Urate crystals	the plantal cavity			
(xiii) What is the term for the procedure in which a needle is inserted into the pleural cavity						
	to remove excess pleural fluid for diagnostic or t					
	a) Pleurodesis	b) Thoracentesis				
/i.	c) Pleurocentesis	d) Pleural Biopsy				
(XIV) Acrosomal cap of Semen is associated with the		•			
	a) Hydrolytic enzyme	b) Proteolytic enzymd) Antibodies	е			
c) fusing enzyme d) Antibodies (xv) The clinical procedure applied for the collection of Ascitic fluid can be experimented by						
	a) Paracentesis c) Peritocentesis	d) Thoracentesis				
	c) i cinocentesis	4 / 111014501116516				
	Grou	о-В				
(Short Answer Type Questions) 3						
2. Describe the role of liquifaction in semen analysis. How long does it usually take for semen (3						
to liquify, and what might delayed liquifaction indicate?						
3. List the utility of Phlebotomy.				(3)		
4. Write short notes about Erythropoiesis.				(3)		
5. How would you differentiate Casts found in Urinary specimen on the basis of diseases? (3) Compare with diagrammatic representation.						
	6. How is sperm motility typically assessed, and what are the reference values for normal (3)					
	notility?		,	(0)		
	OR					
	A patient is interpreted with Renal disease, correlate with different test parameters of Urine (3)					
t	o confirm the disease condition.					
	· ·	_				
Group-C (Long Answer Type Questions) 5 x 6=30						
	(Long Answer Ty	pe Questions)		5 x 6=30		
-	Description of District of different tupos of Diood College	mainm also for a contract		(5)		
/. 0	 Prepare a list of different types of Blood Cells. Mention the function of each of them. A Urine specimen is received to perform Urine M/E. What does it stand for? How would you perform the procedure? Categorize findings of M/E. 					
	Describe the composition of amniotic fluid and it		davalanmant 14/1-	/61		
٥.	are the parameters assessed in Laboratory.	amportance in retail	uevelopment. what	t (5)		
	A patient is interpreted with Diabetes Mellitus, C	orrelate with differen	t narameters to	(5)		
	confirm this disease condition.	with dilleren	r barameters to	(3)		
11.	Describe the different type of Vials used for Clinic	al testing and mantic	n thair utility	(5)		

Demonstrate the structure of Normal Semen and label different parts. Mention function of all parts.	on the (5)
OR Write the principle of Sperm Count. In which method the Counting of Semen nassessed?	may be (5)

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