

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Diploma in Medical Laboratory Technology Course Name – Hematology Course Code - DMLT203 (Semester II)

Time allotted: 1 Hrs.15 Min. Full Marks: 60

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) Anticoagulant used for HbA1c test is a) Sodium fluoride b) Heparin c) EDTA d) Sodium Citrate (2) Blood is stained with b) Safranin a) Methylene Blue d) Leishman Stain c) Carbol Fuchsine (3) What is the dilution factor of red blood cells? a) 1:300 b) 1:200 d) 1:500 c) 1:100 (4) What is most preferred method of haemoglobin estimation? a) Cyanmethaemoglobin b) Sahli's c) Colour matching d) None of these (5) What is the normal value of CT a) 2-9 minutes b) 10-13 minutes c) 6-8 minutes d) 11-15 minutes (6) When blood is centrifuged, the volume percentage occupied by the packed red cells is

Page 1 of 5

b) Mean corpuscular volume

d) None of these

b) Drabkin's Reagent

known as the:

c) Haematocrit

a) N/10 HCL

a) Erythrocyte Sedimentation Rate

(7) Which reagent we used in cyanmethaemoglobin method?

c) Tri-Sodium Citrate Soln.	d) Dextrose Soln.	
(8) Which is the most common hereditary bleeding disorders		
a) Von Willebrand Diseases	b) Haemophilia A	
c) Sickle Cell Anaemia	d) Haemophilia B	
(9) Estimation of plasma iron is done in which v	, <u>-</u>	
a) EDTA	b) Sodium fluoride	
c) Sodium Citrate	d) Heparin	
(10) Bleeding disorder also means		
a) Coagulopathy	b) Abnormal Bleeding	
c) Clotting Disorders	d) All of these	
(11) Normal level of haemoglobin in newborn bal	by	
a) 20-22 gm%	b) 16-18 gm%	
c) 14-16 gm%	d) 13-15 gm%	
(12) What is the composition of buffy coat?		
a) Platelets + Plasma	b) Platelets + Serum	
c) Platelets + Packed RBCs	d) Platelets + Leukocytes	
(13) PCV measurement can be done at		
a) 3000 rpm for 30 mins	b) 3500 rpm for 3 mins	
c) 6000 rpm for 10 mins	d) 3500 rpm for 15 mins	
(14) PCV is		
a) Percentage of RBC in whole blood	b) Count of Red blood cells	
c) Total Count of RBCs	d) None of the these	
(15) Which vial we used for ESR estimation?		
a) Red topped vial	b) Yellow topped vial	
c) Black topped vial	d) Grey topped vial	
(16) In which case Hb% is increased		
a) Anaemia	b) Polycythaemia	
c) Both A and B	d) None of the these	
(17) Which angle is best for draw peripheral blood smear?		
a) 45 degree	b) 60 degree	
c) 90 degree	d) 25 degree	
(18) Slow ESR is usually seen in		
a) Polycythaemia	b) Sickle Cell Anaemia	
c) Both A and B	d) Leukaemia	
(19) Which method is most accurate for ESR		
a) Westergren method	b) Wintrobe method	
c) Both A and B	d) None of the these	
(20) Abnormal level of PCV seen in		
a) Anaemia	b) Cholera	
c) Polycythaemia	d) All of these	
(21) Which blood cells and blood elements are included in a CBC test		
a) Red blood cells (erythrocytes)	b) White Blood Cells	
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c) Platelets	d) All of these
(22) What is the name of the condition that results whe platelets	n a person does not have enough
a) Thrombocytopenia	b) Thromboangiitis
c) Thrombocythemia	d) Thrombopathia
(23) What do white blood cells do	
a) Carry oxygen from the lungs	b) Carry waste products from the cells
c) Fight infection	d) Help stop bleeding by forming clots
(24) What is hematocrit	
a) A sometimes fatal blood disease	b) The portion of red blood cells compared with total blood volume
c) A blood pressure measuring device	d) A medicine that helps stop bleeding
(25) What are neutrophils	
a) Immature red blood cells	b) A type of white blood cell
c) A type of platelet	d) A type of bacteria
(26) What is severe neutropenia	
a) An absolute neutrophil count (ANC) of less than 500	b) An ANC of less than 1,000
c) An ANC of less than 50	d) An ANC of less than 25
(27) Which is a symptom of not having enough red blo called anemia)	od cells or hemoglobin (a condition
a) Itching	b) Nausea
c) Fever	d) Fatigue
(28) What do red blood cells do	
a) Carry oxygen from the lungs	b) Carry carbon dioxide, a waste product, from the cells
c) Fight infection	d) Help stop bleeding by forming clots
(29) Serum differs from blood as it lacks	
a) antibodies	b) clotting factors
c) albumins	d) globulins
(30) Which of the following blood cells play an import	ant role in blood clotting?
a) Thrombocytes	b) Neutrophils
c) Leucocytes	d) Erythrocytes
(31) DNA is not present in	
a) an enucleated ovum	b) hair root
c) a mature spermatozoa	d) mature RBCs
(32) What are the main functions of blood?	
a) Transport	b) Protection
c) Regulation	d) All the these
(33) Name the components that are found in Plasma?	
a) Proteins	b) Gases
c) Nutrients	d) All the these
(34) The percentage of formed elements in the blood is	

a) 0.45	b) 0.5
c) 0.55	d) 0.65
(35) Which blood cells secrets antibody?	
a) Eosinophils	b) Monocytes
c) Lymphocytes	d) Neutrophils
(36) On collecting blood, what solution is ad-	ded to it?
a) sodium citrate	b) potassium citrate
c) sodium phosphate	d) potassium phosphate
(37) The blood corpuscles are of kinds.	
a) 5	b) 4
c) 2	d) 1
(38) Which leucocytes release heparin and hi	stamine in blood?
a) Neutrophil	b) Basophil
c) Eosinophil	d) Monocytes
(39) Absence of which clotting factor leads to	o Hemophilia-A?
a) Factor VII	b) Factor VIII
c) Factor IX	d) Factor X
(40) Red cell count is carried out by	
a) Electrogram	b) Sphygmomanometer
c) Haemoglobinometer	d) Haemocytometer
(41) Which anemia is classified as not being because of a inherited cause.	able to use iron properly to synthesize hemoglobin
a) Iron deficiency anemia	b) hypochromic anemia
c) aplastic anemia	d) sickle cell anemia
(42) Which of the following is a function of 1	plasma protein;
a) Oxygen transport	b) Blood buffers
c) Exerts osmotic pressure	d) All of these
(43) Which of the following is not present in	normal blood;
a) Fibrinogen	b) Thrombin
c) Prothrombin	d) Albumin
(44) Causes spurious decrease in MCV	
a) Cryofribrinogen	b) Hyperglycemia
c) Autoagglutination	d) High WBC ct
(45) When the entire CBC is supresses due to calles?	either aanemia, infection, or hemorrhage is
a) Erythroplasia	b) Thrombocytopenia
c) Pncytopenia	d) Leukopenia
(46) Total RBC count for women is?	
a) 4.4-6	b) 4.2-5
c) 4.0-5.0	d) 4.2-5.2
(47) Total RBC for Men?	
a) 4.0-5.0	b) 4.6-6.0

