AAG-003-038401 Seat No. _____ B. Voc. (MLMDT) (Sem. IV) (CBCS) Examination April / May - 2016 MLMDT-4.1: Immunohematology & Blood Banking Faculty Code: 003 Subject Code: 038401 Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 1 Multiple Choice Questions: 20 What is full form of ID-NAT? (A) Individual Donor Nucleic acid Amplification Technique (B) Individual Nucleic acid Amendment Technique (C) Individual Nucleic acid Abstract Technique (D) Isolated Nucleic acid Isolation Technique Full form of AHG is..... (2) (A) Anti H Globulin (B) Anti Host Globulin (C) Anti Human Globulin (D) Anti Histamine Globulin Universal color coding for AHG is... (3)(A) Blue (B) Green (C) Colorless (D) Yellow Vaccine preventable disease... (A) HIV (B) Syphilis (C) HBV (D) Malaria Expired / infected blood should be discarded after... (5)(A) Autoclaving

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(B) Hot air oven sterilization

(D) Chemical treatment

(C) Shredding

(6)	Basic chemical used for disinfection in blood bank?									
	(A)	Sodium Hypochlorite	(B)	Sodium Nitrite						
	(C)	Sodium Hypochloride	(D)	Sodium Chloride						
(7)	Mandatory license required to operate blood bank is from									
	(A)	ISO	(B)	GPCB						
	(C)	NABH	(D)	FDCA						
(8)	To check the collected amount of donated blood from donor is used.									
	(A)	a) Blood Weighing Scale								
	(B)	B) Blood Component Separator								
	(C)	(C) Blood Collection Monitor								
	(D) Blood Collecting Device									
(9)	Crossmatching can be performed by									
	(A)	Tube method	(B)	SPRCA method						
	(C)	CAT method	(D)	All of above						
(10)	What is full form of TTI?									
	(A)) Transfusion Transmitted Disease								
	(B)) Transfusion Transcripted Disease								
	(C)	(C) Transfusion Transfer Disease								
	(D)	(D) Transfusion Travel Disease								
(11)	Full	form of SDP is								
	(A)	(A) Single Donor Product								
	(B)	(B) Single Donor Plasma								
	(C) Simple Donor Platelet									
	(D) Single Donor Platelet									
(12)		form of BSA is								
		Bovine serum area								
	(B) Bovine serum albumin									
	(C) Bright saturated area									
	(D) Bovine serum alpha									
(13)	Blood donation interval between two platelet pheresis is									
	(A)	90 days	(B)	\geq 48 days						
	(C)	≥ 48 hours	(D)	≥ 90 hours						

	(14)	For whole blood donation pulse of donor must be between							
		(A)	50 – 90 beats	(B)	50 – 120 beats				
		(C)	50 - 100 beats	(D)	80 - 100 beats				
	(15)	Storage temperature for FFP is							
		(A)	2 - 8 °C	(B)	≤ -35 °C				
		(C)	22-25 °C	(D)	≤ -80 °C				
		(A)	Factor VII	(B)	Factor V				
		(C)	Factor VI	(D)	Factor VIII				
	(17) ABO antibodies are of which class?								
		(A)	Ig G	(B)	Ig A				
		(C)	Ig M	(D)	Ig E				
	(18)) Full form of DCT is							
		(A)	Direct Agglutination Test						
		(B)	Direct Clotting Test						
		(C)	Direct Coomb's Test						
		(D)	Direct Control Test						
	(19)	Pooled cell contains at least how many samples							
		(A)	Three	(B)	Two				
		(C)	Five	(D)	Six				
	(20) Volume of normal Fresh Frozen Plasma is								
		(A)	200 - 220 ml	(B)	40-80ml				
		(C)	50-90 ml	(D)	$\geq~200~ml$				
2	(a) Answer in brief: (any 3) 3×2=								
		(1) What is adverse donor reaction?							
		(2)							
		(3)							
	(4) What is reverse grouping?								
(5) Describe gradation of reporting of ABO blood group by tube method.									
		(6)	What is window period	od?					
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- (b) Answer in brief: (any 3)
 (1) Cross matching
 (2) Biomedical waste management in blood bank.
 (3) Basic details filled in Blood Donation Form
 (4) Antisera used in blood bank.
 - (5) Basic activities of Transfusion Transmitted Infection (TTI) testing laboratory.
 - (6) Importance of counselling of blood donor.
- (c) Write short notes: (Any 2) 2×5=10
 - (1) Importance of NAT in blood bank
 - (2) HLA genes
 - (3) HDN caused by Rh incompatibility.
 - (4) Basic set up for blood donation camp.
 - (5) SDP Apheresis procedure with basic screening criteria
- 3 (a) Answer in brief: (any 3) 3×2=6
 - (1) Methods for HIV detection.
 - (2) Blood components prepared from Plasma.
 - (3) Methods for syphilis detection.
 - (4) Blood spillage management.
 - (5) What is SPRCA method?
 - (6) Mandatory tests of donated blood.
 - (b) Answer in brief: (any 3) $3\times 3=9$
 - (1) What is D^u?
 - (2) Post donation care.
 - (3) Temperature monitoring systems used in blood bank.
 - (4) Lab diagnosis of HDN.
 - (5) Describe uses of Platelet products.
 - (6) Types of blood bags used in blood bank.
 - - (1) Quality control of copper surpliate solution
 - (2) Automation in blood bank.
 - (3) Transportation of whole blood and blood components.
 - (4) Investigations in case of blood transfusion reactions.
 - (5) ABO blood group.