REV-01 BMLT/01/05

Duration: 3 hrs.

Time: 30 min.

a. I month

c. 6 months

a. A.

c. A2

SET

Full Marks: 70

Marks: 20

2024/07

## BACHELOR OF MEDICAL LABORATORY TECHNOLOGY FIFTH SEMESTER PATHOLOGY-V

BMLT - 505 [SPECIAL REPEAT]
(USE OMR SHEET FOR OBJECTIVE PART)

**Objective** 

 $1 \times 20 = 20$ Choose the correct answer from the following: Where was the first blood bank established in India? b. Calcutta a. Bombay d. Madras c. Delhi 2. Who performed the first successful man to man blood transfusion? a. Norman Bethune b. James Blundell d. Reuben Ottenberg Karl Landsteiner 3. What should be the minimum body weight for the donation of 450 ml of blood? a. 40 kg b. 45 kg c. 50 kg d. 55 kg 4. Which ABO blood group has the lowest percentage of H antigen? a. A<sub>1</sub> b. B c. A<sub>1</sub>B d. O 5. For how long blood can be stored in a blood bag containing CPDA? a. 21 days b. 25 days c. 31 days d. 35 days 6. Anti-human globulin is not used in which of the following test. a. Direct Coomb's test b. Indirect Coomb's test c. Du test d. Compatibility test 7. Methylene Blue dye is used for giving the colour of which anti-sera a. Anti- A b. Anti-B d. Anti-D c. Anti-AB

8. For what period of time a person who recently had a tattoo cannot donate blood.

b. 3 monthsd. 1 year

b. Am

d. As

9. Which of the following subgroup of A is clinically significant?

10.	Which of the following is not considered a. Hemoglobin c. Height	d while selecting a donor. b. Weight d. Blood pressure	
11.	Which of the following is not an antiger a. C c. E	n of Rh blood group system?  b. D  d. F	
12.	In major cross-matching which of the foother?  a. Donor red cell with patient serum  c. Donor serum with patient red cell	b. Donor plasma with patient serum d. Donor plasma with patient red cell	
13.	Fresh Frozen Plasma are stored in what a. 4°C c30°C	temperature. b4°C d70°C	
14.	For how long platelet concentrate can be a. 5 days c. 30 days	e stored? b. 10 days d. 90 days	
15.	What is detected in Coombs test?  a. Antigen c. Incomplete antigens	<ul><li>b. Antibody</li><li>d. Incomplete antibodies</li></ul>	
16.	If a person had a minor surgery, for wh donate blood.  a. 1 month  c. 6 months	at duration of time is he not allowed to b. 3 months d. 1 year	
17.	The name of which of the following blo a. Lutheran c. Kidd	od group system is taken from the patient?  b. Lewis d. Kell	
18.	Which of the following is an antigen of a. $J^a$ c. $JK^a$	Kidd blood group system?  b. K <sup>a</sup> d. KJ <sup>a</sup>	
19.	Which of the following is a transfusion a. Hepatitis C c. Syphilis	transmitted disease? b. Malaria d. All the above	
20.	Which of the following is not an antigera. K c. Kea	n of Kell blood group system? b. k d. Kp <sup>a</sup>	
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## ( <u>Descriptive</u> )

Time: 2 hrs. 30 min. Marks: 50

## [ Answer question no.1 & any four (4) from the rest ]

1.	Write short essay on Haemolytic Disease of the Newborn (HDN).	10
2.	Explain Rh blood group system including Du phenotype and Rh null syndrome in detail.	10
3.	Write a short note on adverse donor reaction and their management.	5+5=10
4.	Describe the criteria of physical examination and explain about the immunization that are to be considered while selecting a donor.	5+5=10
5.	Discuss briefly about the ABO system including their subgroups. Explain Bombay blood group system.	7+3=10
6.	Write a brief note on the history of blood transfusion.	10
7.	What are the blood components that can be separated from a single unit of blood bag? Explain the separation of fresh frozen plasma and platelet concentrate.	2+4+4 =10
8.	Explain the genotype and phenotype of the ABO blood group system. Determine the blood group of a child whose father has B blood group and his/her mother has AB blood group.	3+7=10

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