

2055

B. Voc. (Medical Lab Technology)

Sixth Semester

BMLT-602: Sensitization to Blood Banking and infection Control

Time allowed: 3 Hours

Max. Marks: 80

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Write the answer in very brief:-

- (a) Define the blood donation.
- (b) Write the name of two blood groups?
- (c) Why anticoagulant is used?
- (d) Write the names of two anticoagulants.
- (e) Blood transfusion?
- (f) What is the Rh factor?
- (g) Immunoglobulin.
- (h) Write the names of opportunistic pathogen? (8x2)

UNIT - I

- II. a) What are the four main blood groups in the ABO system?
 - b) What complications can arise due to mismatched ABO blood transfusion? (2x8)
- III. a) What is Rh factor? Write the dis-advantage of Rh factor in human.
 - b) Write a short note on name the identification of blood groups. (2x8)

UNIT - II

- IV. a) What is blood transfusion process and its medical significance.
 - b) Describe the clinical consequences of ABO incompatibility and the measures taken to prevent transfusion-related hemolysis. (2x8)
- V. a) Explain the challenges faced in maintaining an adequate and safe blood supply without infectious diseases, and storage limitations.
 - b) Briefly describe the platelets transfusion and its applications in dengue disease. (2x8)

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(2)

UNIT -III

- VI. a) Write the structure of immunoglobulin. How will detect immunoglobulin for skin allergy.
b) What is immunohematology, and why is it important in transfusion medicine? (2x8)
- VII. a) What are the different types of blood donations (e.g., whole blood, plasma, platelets, etc.)?
b) What tests are performed on donated blood before transfusion? (2x8)

UNIT - IV

- VIII. a) How can proper storage and handling of blood products prevent contamination?
b) What are the standard precautions for handling needles and sharp instruments? (2x8)
- IX. a) Explain the incubation phase. Write its clinical significance.
b) Write in short on conditions can lead to opportunistic infections. (2x8)

x-x-x