



# BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(MLT)-2020/B.Sc.(MLT)-2021

Course Name – Blood Banking & Blood Transfusion

Course Code - BMLT601

( Semester VI )

Full Marks : 60

Time : 2:30 Hours

[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

1. Choose the correct alternative from the following :

- (i) Haemoglobin measurement in blood donation camp is done by?
  - a) Copper Sulphate soln.
  - b) Cyanmethemoglobin
  - c) Sahli's Method
  - d) none of these
- (ii) Which of the following diseases can't be transmitted through transfusion of blood?
  - a) Hepatitis B
  - b) AIDS
  - c) Cancer
  - d) malaria
- (iii) Which of the following is true about minor crossmatch?
  - a) Recipient's serum is mixed with donor's serum
  - b) Recipient's red cells are mixed with donor's red cells
  - c) Recipient's red cells are mixed with donor's serum
  - d) Recipient's serum is mixed with donor's red cells
- (iv) What is the lowest acceptable hematocrit for female donor
  - a) 36%
  - b) 38%
  - c) 41%
  - d) 43%
- (v) A man is rushed to casualty, nearly dying after a massive blood loss in an accident. There is not much time to match blood groups, so the physician decides to order for one of the following blood groups. Which one of the following blood groups should the physician choose?
  - a) O negative
  - b) O positive
  - c) AB positive
  - d) AB negative
- (vi) Platelets can be stored at \_\_\_\_\_ .
  - a) 20-24°C for 5 days
  - b) 2-8°C for 5 days
  - c) -20°C for 8 days
  - d) -80°C for 12 days
- (vii) Cryoprecipitate is a rich source of \_\_\_\_\_.
  - a) Thromboplastin
  - b) Factor VIII
  - c) Factor X
  - d) Factor VII





10. Describe the step-by-step procedures involved in conducting Weak D testing, emphasizing the critical techniques and considerations for accurate and reliable results in blood typing. (5)
11. Match the criteria of selection of a good donor. (5)
12. Explain the comprehensive process involved in preparing the different blood components for transfusion within a blood bank. (5)

**OR**

Explain the concept of Coombs control cells and outline the procedures involved in their preparation for use in the laboratory. (5)

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