

2022

BMLT

(B.Sc. Fifth Semester End Examination-2022)

PAPER-XXIX

[Blood transfusion and Blood Bank]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Group-A

1. Answer any five question of the following: **5x2 = 10**
- What is sensitivity and Specificity of reagents?
 - Write the calculation of Blood in "ml" from a Blood containing Blood Bags.
 - What is GV's HD?
 - What are the changes occurred on RBCs Preserved in Blood Bank?
 - Write down the difference between Cryoprecipitate and FFP.
 - What is AIHA?
 - Write the name of different types of Blood donors.
 - Why Indirect 'Coombs' test is more importance than Direct 'Coombs' test?

(2)

Group-B

2. Answer any four questions of the following: **4x5 = 20**

- a) What is Apheresis? Write the uses of Apheresis. Write the advantages of Apheresis. **1+2+2**
- b) Write the principle, procedure & Preparation of CuSO₄ for Haemoglobin estimation. **1+2+2**
- c) Write the criteria for selection of donors and rejection of donors in case of Blood donation. **$2\frac{1}{2} + 2\frac{1}{2}$**
- d) Write the definition of the followings: - Hot antibody, Alloantibody, on Blood Group, Febrile Transfusion Reaction, Sero-Reactivity. **1x5**
- e) Discuss the different types of Blood Transfusion reactions. **5**
- f) Discuss the process of discarding the sero-Reactive blood in details. **5**

Group -C

3. Answer any one question of the following: **1x10=10**

- a) In a 'Triple Bag System' after collection of whole blood, what are the components you may prepared in Blood Bank? Write the procedure and storage the blood components in details. **1+8**
- b) What is 'Window Period' of HIV? Write the principle & procedure of HIV screening test by ELISA Method. **2+2+6**