

**2021**

**BMLT**

**(B.Sc. Third Semester End Examination-2021)**

**PAPER-XIII / UNIT-13 (Theory)**

**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*

### **Immuno Haematology**

#### **Group-A**

- 1. Answer any five questions of the following: 5x2= 10**
- a. What is plasma therapy?
  - b. What are cryopreservation and Vitrification?.
  - c. Why are most apparatus made of glass in hematology laboratory?.
  - d. How do you handle infected Glassware?
  - e. Mention the normal value of Haemoglobin in human?
  - f. Why plastic bag are used for blood collection in blood donation camp instead of traditional glassbottle?
  - g. What will happen when a Person is missing or does not have enough G6PD?

(2)

h. What are reverse blood grouping and forward blood grouping?

**Group-B**

2. Answer any four questions of the following: 5x4 = 20

- a. Write down process of haemoglobin synthesis (with diagram). 5
- b. Why blood grouping is important before the blood transfusion? What is erythroblastosis foetalis? 3+2
- c. Write the difference between intravascular versus extravascular hemolysis? Write the principle of pulse oximeter? 3+2
- d. Differentiate between hemorrhage and hemolysis as a cause for anemia? What is coombs test and why this test is performed? 2+3
- e. Why disinfection and sterilization are important in hematology laboratory?
- f. On what ground blood donors are rejected and why? 3+2

**Group -C**

3. Answer any one question of the following: 10x1 = 10

- a. Why immunosuppressive drug use in the time of organ transplantation? What is autologous blood transfusion? Write the importance of HLA(Human Leucocyte Antigen) in organ transplantation. 4+2+4

or

(3)

b. Write a short note

$$2\frac{1}{2} \times 4$$

- i. Sickle cell anemia
  - ii. secondary polycythemia
  - iii. Thalassemia
  - iv. Polycythemia vera
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