

**2021**

**BMLT**

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

**PAPER-XV (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*

### **Clinical Immunology**

#### **Group-A**

- 1. Answer any five questions of the following: 5x2= 10**
- a. What is immunization? 2
  - b. What is allograft? Give example. 2
  - c. What do you understand by artificial innate immunity? 2
  - d. Name any two infections disease of recent time mentioning the names of vaccines respectively. 1+1
  - e. What are the primary immune organs? 2
  - f. What is ADCC? 2
  - g. What do you mean by immunosuppression? 2
  - h. What is paratope? 2

(2)  
**Group-B**

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

Write short notes on any four:

- a) Erythroblastosis foetalis 5
- b) Structure and function of spleen 5
- c) Monoclonal antibody. 5
- d) Graft-rejection 5
- e) DNA vaccines and RNA vaccines. 3+2
- f) Severe combined immunodeficiency (SCID) 5

**Group -C**

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

- a. i) What is the difference between isotype, allo type and idio type antigenic determinant? Mention with examples.
- ii) What is the difference between cytokine and chemokine?
- iii) What changes occur in blood at the time of an inflammatory response?
- iv) Explain the mechanism of activation of complement mediated system via classical pathway. (3+1)+2+2+2
- b. i) What is adjuvant? Give example.
- ii) What do you understand by exogenous antigens?
- iii) Schematically describe the patho-physiology of myasthenia gravis.
- iv) Write any two applications of lipid haptens. (1+1)+2+4+2