

2022

BMLT

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

PAPER-XV

[Clinical Immunology]

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 questions of the following: 5x2 = 10
- a. What is epitope? Draw suitable diagram of it.
 - b. What are secondary lymphoid organs?
 - c. Differentiate between cellular & humoral immunity.
 - d. Define apoptosis?
 - e. What are common myeloid progenitor?
 - f. What do you mean by grafting?
 - g. Write the important role of mast cells?
 - h. When booster dose is recommended?

(2)

Group-B

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

- a) Explain the mechanism of activation of B Lymphocytes with suitable diagram. 5
- b) Write short note on - i) Myasthenia gravis
ii) Rheumatoid arthritis $2\frac{1}{2} + 2\frac{1}{2}$
- c) What is opsonisation? Explain the process of activation of NK cells with suitable diagram. 2+3
- d) What is GALT? Write the different types of macrophages and mention the function of macrophage.
- e) Why is immune suppressive therapy required before allograft but not in isograft? 5
- f) Explain the structure and function of class IMHC with suitable diagram. 5

Group -C

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

- a) i) What do you mean by 'Cell Mediated Immunity'?
ii) What are complement fixation test and precipitation reactions? $5 + 2\frac{1}{2} + 2\frac{1}{2}$
- b) i) Explain in detail about the structure of Ig molecule monomer with suitable diagram.

(3)

ii) Mention any three types of immunoglobulins with their functions.

iii) What is 'PALS'? 5+3+2
