

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPHARM 0921]**

**SEPTEMBER 2021  
(OCTOBER 2020 EXAM SESSION)**

**Sub. Code: 2966**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER-II (PCI New regulations 2016)  
PHARMACEUTICAL BIOTECHNOLOGY - MPB  
PAPER II – IMMUNOTECHNOLOGY  
*Q.P. Code : 262966***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss about Humoral immunity and Cell mediated immunity.
2. Write in detail about the principle and application of ELISA and RIA method.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Write the importance of monoclonal antibody over the polyclonal antibody.
2. Write a note on Chemiluminescence assay.
3. Define vaccine and explain the production and purification of anyone viral vaccine.
4. Short note on synthetic peptides.
5. Explain the type of immune response.
6. Function of MHC complex.
7. Define immune system and explain the cell and organ which involved in the immune system.

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