

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

[LP 966]

NOVEMBER 2019

Sub. Code: 2966

**M.PHARM. DEGREE EXAMINATION**  
**(PCI New regulations 2016)**  
**SEMESTER-II**  
**BRANCH-IV – PHARMACEUTICAL BIOTECHNOLOGY – MPB**  
**PAPER II – IMMUNOTECHNOLOGY**

*Q.P. Code : 262966*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the types of immunity in an individual and their function. Add a note on Immunoglobulins.
2. Discuss in detail the importance and types of Antigen-Antibody reactions with examples.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Types and treatment of hypersensitivity reactions.
2. MHC complex and antigen presenting cells.
3. Principle involved in blotting techniques.
4. Phagocytosis.
5. Applications of stem cell technology.
6. Synthetic peptides and immunodiagnostics.
7. Applications of monoclonal antibodies.

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