

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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[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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[M.PHARM 0922]

**SEPTEMBER 2022
(APRIL 2022 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. Explain in detail about hypersensitivity reactions and autoimmune diseases.
2. a) Define immunity and explain different types of immunity.
b) Write a detailed note on Western blotting technique principle, procedure and its applications.

II. Write notes on:

(7 x 5= 35)

1. Hybridoma technique and its applications.
2. Write a note on immuno electrophoresis and Radioimmunoassay (RIA).
3. Function of Major Histocompatibility Complex.
4. Write note on vaccines. Explain the production method for any one-vaccine.
5. Discuss about different types of Immunoglobulins.
6. Write a note on Immunodiagnosics.
7. List out and explain various types of antigen and antibody reactions.
