



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd.u/s 3of UGC Act 1956, Category A by MHRD [now MoE]

Re-accredited with an A++ Grade by NAAC CGPA 3.65/4, Category I by UGC

Coimbatore-641043, Tamil Nadu, India

Continuous Internal Assessment II – April 2025 II Semester

Class : I UG

Major: Biochemistry and Biotechnology

Time : 2 hrs

Max Marks : 60

23BBCC02 Immunology

Course Outcomes:

CO1: Gain an insight in to the various cells and organs involved in the immune system.

CO2: Understand the components of the immune system and the molecular mechanisms involved in their nteractions.

CO3: Gain knowledge on the various disorders and diseases affecting the immune system.

CO4: Comprehend the immunization procedures and defense mechanisms.

CO5: Learn practical aspects of various immunological techniques.

Part A

6 x 1= 6

Choose the Correct Answer

- Hypersensitivity Type I is also called as
a. Anaphylaxis b. Atopy c. Anergy d. Synergy CO3K1
- Myasthenia gravis is due to production of antibodies against
a. Myelin b. Thyroglobulin c. Acetyl choline receptor d. Nuclear proteins CO3K2
- Oral Polio Vaccine is an example of _____ vaccine
a. Recombinant b. Live attenuated c. DNA d. Inactive CO4K2
- Monoclonal antibodies are used in all the following EXCEPT
a. Diagnosis b. Treatment of bacterial diseases
c. Anti-viral treatment d. Cancer treatment CO4K1
- Coomb's test is a type of _____ reaction
a. Transplant rejection b. Cross matching
c. Agglutination d. Allergic CO5K3
- In radioimmunoassay, which of the following is radiolabelled
a. patient's antigen b. antibody c. standard antigen d. any of the above CO5K2

Part B

3 x 6 = 18

Answer ALL questions

Each answer should not exceed 400 words or two pages

- (a) Describe type II hypersensitivity with an example
(or) CO3K2
- (b) Write a note on Hashimoto's thyroiditis CO3K3
- (a) Compare and contrast between active and passive immunization
(or) CO4K2
- (b) Explain about recombinant DNA vaccines CO4K3
- (a) Describe the features of antigen antibody interactions.
(or) CO5K2
- (b) Elaborate on Immunofluorescence and its applications CO5K2

Part C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

- (a) Elaborate on (i) Type I hypersensitivity (ii) SLE
(or) CO3K3
- (b) Discuss about primary immunodeficiency diseases . CO3K2
- (a) Describe the principle and production of monoclonal antibodies
(or) CO4K3
- (b) Discuss about killed, attenuated and toxoid vaccines with examples CO4K2
- (a) Elaborate on the principle and different types of ELISA
(or) CO5K2
- (b) Illustrate and explain immunodiffusion and its types CO5K2

Total Number of QP: 55 (Aided) + 40 (SF)