



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – July 2020
IV Semester

Class : II UG

Time : 3 Hours

Major : Biochemistry and Biotechnology

Max Marks : 100

18BBTC08 Immunology

PART A

Choose the Correct Answer

10 x 1 = 10

1. MHC code for _____ proteins
a. Cell surface
b. c. globular
b. fibrous
d. keratin
2. T cell is a type of
a. bacterial
c. lymphocyte
b. protein
d. strain
3. B cells are a type of
a. white blood cells
c. hazardous cells
b. helper cells
d. red blood cells
4. Example of autoimmune disease
a. Typhoid
c. Systemic lupus erythematosus
b. Dengue
d. Acne
5. Virus infected cells release
a. interferons
b. c. virions
b. pus
d. toxins
6. TLR stands for
a. Toll like receptor
c. Tall like receptor
b. T cell like receptor
d. T cell lymph receptor
7. Interferons are produced by
a. cytokines
c. cytokinin
b. cytosin
d. metalloenzymes
8. Immunoglobulins are _____ molecules
a. glycoprotein
c. ferrous
b. sugar
d. antigen
9. B cell receptor controls the activation of
a. T cells
c. G cells
b. B cells
d. M cells
10. _____ is the largest antibody
a. IgG
c. IgM
b. IgA
d. IgE

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

11. a. Give a note on primary lymphoid organs.
(or)
11. b. What is the difference lymphoid and myeloid cells?
12. a. Sketch the general structure of immunoglobulin G (IgG)
(or)
12. b. Summarize the features of different types of antigens.
13. a. Describe the factors responsible for Hashimoto thyroiditis.
(or)
13. b. Outline the basic concepts of Autoimmunity.
14. a. Validate types of immunization.
(or)
14. b. Trace the types of transplantation.
15. a. Compile a note on blood grouping.
(or)
15. b. Assess the steps for lymphocyte separation.

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

16. a. Discuss at length myeloid lineage .
(or)
16. b. Report the significance of differentiation and maturation of cells.
17. a. Interpret the importance of cell mediated immunity.
(or)
17. b. Give an account on classes of immunoglobulins.
18. a. Express your understanding on HIV .
(or)
18. b. Highlight the elementary concepts of different types of hypersensitivities.
19. a. Point out the steps involved in production of monoclonal and polyclonal antibodies.
(or)
19. b. Discuss about general organization of MHC genes.
20. a. Enumerate the immunofluorescence.
(or)
20. b. How the lymphocytes can be separated by centrifugation?
