

16.11.19/FN

SUB.CODE: 18PBC3C9

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Section – C

ANSWER ANY THREE

(3X10=30)

16. Describe the structure ,characteristics and functions of immunoglobulin and its types
17. Outline the events of complement classical and alternative pathway
18. Give a detailed account on organ specific autoimmune disease
19. Explain in detailed about the production of monoclonal antibodies and its applications
20. Outline the principle and technique of ELISA and ELISPOT.



**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**



(For Candidates admitted from 2018-2019 onwards)

P.G DEGREE EXAMINATIONS, NOVEMBER – 2019

Time : 3 hrs

Max. Marks: 75

M.Sc., Biochemistry

Advanced Immunology

Section– A

CHOOSE THE CORRECT ANSWER (10 X 1 = 10)

1. The major class of Ab produced by bone marrow is
(a) IgA (b) IgM (c) IgG (d) IgE
2. The peripheral blood has high proportion
(a) T-cell (b) B-cell (c) macrophages (d) plasma cells
3. The initial complement component that is bound by complement-fixing antibodies is
(a) C1q (b) C1s (c) C5a (d) C3a
4. The immature macrophage is
(a) Histocyte (b) Kupffer cell (c) microglia (d) monocytes
5. An example of a known oncogenic virus is:
(a) Herpes zoster (b) HIV-2.
(c) Epstein-Barr virus, (d) Vesicular stomatitis virus

6. HIV initially infects cells expressing
(a) CD1 (b) CCR5 (c) CD8 (d) CD36
7. MAbs generated against OKT-3 Ag is used
(a) to suppress the transplant rejection
(b) to detect cancer
(c) to detect affinity of certain Ag to Ab
(d) to detect venereal disease caused by nisseriagonorrhoea
8. HGPRT mutant myelomas can be selected by growing myeloma cells in IMDM medium containing
(a) 8-azaguanine (b) 5-bromouracil
(c) aminopterin (d) hydrofluoric acid
9. The fluorescent dye FITC Absorbs Uv light and emits
(a) Yellow light (b) Blue light
(c) green light (d) Uv light.
10. The major type of bonds between Ag and Ab is
(a) H-bond (b) covalent bond
(c) hydrophobic bond (d) vander waals bond

Section – B

ANSWER ALL THE QUESTIONS (5X7=35)

11. (a) Explain the various cytokines of the immune system
(OR)
(b) Describe the characteristics of innate immunity.

12. (a) Elaborate antibody diversity .
(OR)
(b) Differentiate T Cell and B Cell with neat diagram
13. (a) Discuss the mechanism ,diagnosis and treatment of type I hypersensitivity
(OR)
(b) Give an account on different types of tumour antigens
14. (a) What are attenuated vaccines ? Give two examples of attenuated vaccine
(OR)
(b) Explain in detail about active and passive immunization
15. (a) Give an account on immunoelectrophoresis and its applications
(OR)
(b) Briefly explain about Abzymes and its uses