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GIET UNIVERSITY, GUNUPUR – 765022
M. Sc. (Second Semester) Examinations, September – 2021
20LSPC 202 – Molecular Immunology
(Life science)

Time: 2 hrs

Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

PART – A

- Q.1. Answer **ALL** questions **(2 x 10 = 20 Marks)**
- Name the immunity which develops on antigenic response with suitable example?
 - What is the difference between antigen and hapten?
 - What is the role of adjuvant in immunological response and give an example of adjuvant?
 - What are the memory cells and how they do participate in immune response?
 - What is DTH? Name the effector cells in DTH.
 - Differentiate between monoclonal and polyclonal antibodies?
 - Cytosolic pathway of antigen processing is essential for which type of antigens and why?
 - Name two auto immune diseases in human with suitable examples?
 - What is anaphylactic reaction? Write down its mechanism.
 - What is host versus graft reaction?

PART – B (6 x 5 = 30 Marks)Answer ANY FIVE the questions

Marks

- What is innate immunity? Describe different types of defense barrier of human body. (6)
- What is lymphoid organ? Classify them and give an account on the structure and function of lymph node. (6)
- Explain the structure and function of MHC-I? (6)
- Briefly explain the structure and functions of immunoglobulin? Add note on its classification (6)
- What are monoclonal antibodies? Discuss the principle utilized and method followed in the preparation of monoclonal antibodies. (6)
- What is hypersensitivity reaction? Explain Gell and Coombs classification of hypersensitivity. (6)
- What do you mean by immunization? Give a detailed account on types of vaccines with examples. (6)

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