

School of Biomedical Science**Master of Science in Medical Biotechnology
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem II - Q1PP208B - MBAMTT2005 - Immunology**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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| 1) | Describe briefly about dendritic cells. | K1(2) |
| 2) | Describe the development of multiple sclerosis disease in the body. | K2(4) |
| 3) | Describe the process of class switching. | K2(6) |
| 4) | Discuss IPEX syndrome and how it can be treated. | K3(9) |
| 5) | Describe how DNA and subunit vaccines are developed. | K3(9) |
| 6) | Examine the development of various types of COVID vaccines and their effects on the pandemic. | K5(10) |
| 7) | Explain about the classical and alternative complement pathways. | K4(12) |
| 8) | Elaborate the technique involved in generation of monoclonal antibodies. | K5(15) |
| 9) | Explain the structure and functions of cells of immune system. | K5(15) |
| 10) | Elaborate four types of hypersensitivity reactions. | K6(18) |