

School of Biomedical Science**Bachelor of Science in Medical Biotechnology
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem II - Q1UG201T - 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) | Define white blood cells.. | K1(2) |
| 2) | Explain the basic properties and functions of cytokines. | K2(4) |
| 3) | Explain innate immunity. | K2(6) |
| 4) | Elaborate the process of immune evasion by pathogens. | K3(9) |
| 5) | Illustrate the mechanisms underlying type I and type IV hypersensitivity reactions. | K3(9) |
| 6) | Examine the mechanisms by which cytokines regulate immune responses and inflammation. | K5(10) |
| 7) | Discuss the etiology, pathogenesis, and clinical manifestations of autoimmune diseases. | K4(12) |
| 8) | Examine the role of thymus and bone marrow in immune cell development and immune response? | K5(15) |
| 9) | Examine various components of the immune system. | K5(15) |
| 10) | Discuss about first, second and third lines of defense systems. | K6(18) |