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**School of Medical and Allied Sciences****B.Sc Medical Lab Technology  
Mid Term Examination - Nov 2023****Duration : 90 Minutes  
Max Marks : 50****Sem V - BMLS5008 - Immunopathology and Molecular Biology**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*

- 1) Illustrate the role of T-cells in the immune response with a suitable example. K2 (2)
- 2) Recall the difference between humoral and cell-mediated immunity. K1 (3)
- 3) Demonstrate the different types of cells in the immune system K2 (4)
- 4) Summarize and explain the mechanisms behind the autoimmune response. K2 (6)
- 5) Apply the concept of HLA typing and crossmatching in the context of organ transplantation and explain how it helps ensure successful transplant outcomes. K3 (6)
- 6) Organize the steps involved in the development of immune tolerance within the body. K3 (9)
- 7) Analyze the roles and interactions of different cells of the immune system in coordinating an immune response. K4 (8)
- 8) Categorize the various lymphoid organs of the immune system based on their anatomical locations and describe their specific roles in immune responses. K4 (12)

**OR**

- Categorize the types of immune responses based on their mechanisms and specificity, providing examples for each category. K4 (12)