

# School of Basic and Applied Sciences

Microbiology  
ETE - Jun 2023

Time : 3 Hours

Marks : 50

## Sem II - MSDB5006 - Immunology

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

1. Draw a general diagram of the Immunoglobulin. K1 CO1 (2)
2. Define the clonal selection theory of antibodies formation. K2 CO3 (2)
3. Explain the merits and demerits of heat killed vaccines. K2 CO2 (2)
4. Define the role of human leukocyte antigen (HLA). K2 CO2 (2)
5. Briefly explain the basic difference antigenicity and immunogenicity. K1 CO1 (2)
6. Describe the result outcome of double immunodiffusion assay. K4 CO4 (6)
7. With the help of suitable diagram, Explain the difference between MHC class I and MHC class II molecules. K3 CO3 (5)
8. Differentiate between innate and adaptive immunity. K3 CO3 (5)
9. Describe the different variants of ELISA. K4 CO4 (8)
10. Write a note on the different types of vaccines. K3 CO3 (8)
11. Draw and explain the alternative pathway of complement system. K4 CO5 (8)