The People's Democratic Republic of Algeria Ministry of Higher Education and Scientific Research **University Center of Mila Faculty of Natural and Life Sciences** Department of Biological and Agronomic Sciences

TD 00 – Molecular & Cellular Immunology

Exercise 1: Definitions

1. Innate immunity 2. Adaptive immunity 3. Antigen 4. Humoral response 5. Cellular immunity response

Exercise 2: Barriers to innate immunity

Match each item to its innate immunity barrier type:

1. Tears 2. Gastric acidity 3. Skin 4. Macrophages 5. Neutrophils

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Exercise 3: Antibodies and Functions
Complete the following sentences: 1. Antibodies are produced by
2. They specifically recognize and bind to
3. The primary antibody involved in the primary immune response is
4. The antibodies participate in the elimination of pathogens by, and
Exercise 4: Complete the following text
Immature T-lymphocytes (pre-T-lymphocytes), generated in
The surviving LTs head into the medulla, where cells present them with SOI Ag. LTs that recognize these Ag with too much affinity are(Negative selection).
Surviving LTs (less than 1%!) lose their receptor or: cells that react with
itkeep the CD8 molecule and lose CD4. Conversely, cells that bind with thelose their
Mature LTs pass into the bloodstream and move to thein which they will be able to meet