

**C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),  
MELVISHARAM - 632 509.  
SEMESTER EXAMINATIONS, NOVEMBER – 2018**

**M.Sc., ZOOLOGY**

**SEMESTER III**

**P15MZL303 – IMMUNOLOGY**

Time: Three Hours

Maximum: 75 Marks

**SECTION - A (5 X 6 = 30 Marks)**

**Answer ALL Questions.**

1. a) Write an account on lymphocytes.  
(Or)  
b) Explain mono nuclear phagocytes.
2. a) Describe the structure of immunoglobulin.  
(Or)  
b) Give an account on polyclonal antibody.
3. a) Explain agglutination.  
(Or)  
b) Write an account on the complement fixation.
4. a) Write a note on cytokine.  
(Or)  
b) Explain B-cell receptors.
5. a) Give an account on the prevention of tetanus.  
(Or)  
b) List out the viral vaccines in the prevention of post natal diseases.

**SECTION - B (3 X 15 = 45 Marks)  
Answer ANY THREE Questions.**

6. Describe the polymorpho nuclear neutrophils.
7. Explain the synthesis of immunoglobulin.
8. Describe the radioimmunoassay method.
9. Explain the method of antigen processing and presentation.
10. Write a detailed account on the immunological basis of hypersensitivity.

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