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(Tyothi hostel)

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Code No. : 8018

**FACULTY OF SCIENCE**  
**B.Sc. III Year Examination, March/April 2012**  
**MICROBIOLOGY**  
**Paper – III (Immunology and Medical Microbiology)**

Time: 3 Hours]

[Max. Marks : 100

**Note : Answer all questions from Section 'A' and 'B'.**

**SECTION – A**

**(8x5=40 Marks)**

Short Answer type :

1. Lymph nodes.
2. B-Lymphocytes.
3. Antigenic Determinants.
4. "O" Negative blood group.
5. Carriers.
6. Lysozyme.
7. String test.
8. Specific tests for syphilis.

**SECTION – B**

**(4x15=60 Marks)**

Essay Answer type :

9. a) Write an essay on "Cholera" disease.  
OR  
b) Write an essay on polio myelitis.
10. a) Give an account on tests used for anti microbial susceptibility.  
OR  
b) Give an account on methods of laboratory diagnosis in medical microbiology.
11. a) Explain the types of antigen-antibody reactions with suitable examples.  
OR  
b) What are the labeled antibody based techniques ?
12. a) What are the primary and secondary organs of immune system and explain their functions ?  
OR  
b) Explain the methods of identification and functions of 'B' and 'T' lymphocytes.