

**Rajiv Gandhi University of Health Sciences**  
**II Year M.Sc. (MLT) Degree Examination - OCT-2019**

[Time: 3 Hours]

[Max. Marks: 100]

**Microbiology – II**

**Paper – I (Systematic Bacteriology, Applied Microbiology and Immunology)**  
**(Revised Scheme – 2)**

**Q.P. CODE: 9816**

Your answers should be specific to the questions asked.  
Draw neat, labeled diagrams wherever necessary.

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Describe the morphology, cultural characteristics, pathogenicity and laboratory diagnosis of *Neisseria meningitidis*.
2. Enumerate antigen – antibody reactions. Describe the principle, methodology and chemical applications of precipitation reactions with suitable examples.

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. Automation in Microbiology laboratory
4. Laboratory diagnosis of Tuberculosis
5. CSSD
6. Enumerate zoonotic infection. Describe the laboratory diagnosis of Leptospirosis.
7. Laboratory diagnosis Syphilis
8. Ig A antibody – structure, properties and function

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