



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours Part-III Examination, 2021

MICROBIOLOGY

PAPER-VII

Full Marks: 80

ASSIGNMENT

The figures in the margin indicate full marks.

1. Answer any **four** of the following questions: 15×4 = 60
 - (a) What are emerging and re-emerging diseases? Discuss the different public health measures and treatment to prevent this disease. 5+10
 - (b) Discuss different types of virulent factors that contribute to the virulence of bacterial pathogens. 15
 - (c) Discuss about the various mechanisms that have been proposed for induction of autoimmune diseases. Describe the different stages of disease progression. 10+5
 - (d) Write a note on ELISA and its types. Describe the mechanism of precipitation reaction with emphasis on lattice hypothesis. 10+5
 - (e) Describe the Classical, Alternative and MB Lectin pathway of complement activation. 15
 - (f) Describe the pathogenesis, lab diagnosis and treatment of Kala-Azar. 15

2. Answer any **two** of the following questions: 10×2 = 20
 - (a) Write short notes on:
 - (i) RIA (ii) Agglutination reaction
 - (b) Write short notes on:
 - (i) Candidiasis (ii) Immunoelectrophoresis
 - (c) Structure and functions of IgG with proper diagram.

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