BACHELOR OF SCIENCE (CBCS-2018 COURSE)

S. Y. B. Sc. Sem-IV : WINTER- 2022

SUBJECT: MICROBIOLOGY: PRINCIPLES OF DISEASE, EPIDEMIOLOGY &

IMMUNOLOGY

Day: Tuesday Time: 02:00 PM-05:00 PM Date: 6/12/2022 W-18389-2022 Max. Marks: 60 N.B.: 1) All questions are **COMPULSORY**. Figures to the right indicate FULL marks. 2) 3) Draw neat labelled diagrams WHEREVER necessary. **Q.1** Attempt any **TWO** of the following: (12)a) Describe normal flora of human body and its significance. b) Explain food borne transmission of diseases. c) What is innate immunity? Explain types and factors affecting innate immunity. Q.2 Attempt any TWO of the following: (12)a) Explain the structure and properties of IgG antibodies. b) What is complement? Explain in brief classical pathway of complement. c) Discuss transmission of diseases by direct contact with examples. Attempt any **TWO** of the following: Q.3 **(12)** a) Define antigens and explain factors affecting antigenicity. b) Describe properties and types of an active immunity. c) Explain properties and functions of IgE antibodies. Write short notes on any THREE of the following: (12)Q.4 a) Adjuvants b) Phagocytic cells c) Epidemic diseases d) Droplets and droplet nuclei Attempt any **FOUR** of the following: (12)Q.5 a) Give the properties and functions of NK cells b) Define monoclonal antibodies and give their any two applications. c) What do you mean by chronic and acute infection? d) Define carriers and enlist their types. Draw a neat labelled diagram of lgM antibody. Define epitopes and enlist their types.

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