BACHELOR OF SCIENCE (CBCS-2018 COURSE)
S. Y. B. Sc. Sem-IV :SUMMER- 2022
SUBJECT : MICROBIOLOGY : PRINCIPLES OF DISEASE, EPIDEMIOLOGY & IMMUNOLOGY

Day : Friday
Date : 1/7/2022

S-18389-2022

Time : 03:00 PM-06:00 PM
Max. Marks : 60

N.B.:
1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.

Q.1 Attempt **ANY TWO** of the following: **(12)**

a) Draw a neat labelled diagram of IgA and enlist its properties.

b) Giving appropriate examples, discuss 'Arthropod borne transmission of diseases'.

c) Explain cytology and functions of 'Neutrophils'.

Q2. Attempt **ANY TWO** of the following: **(12)**

a) What is 'probiotic flora'? Explain its significance.

b) What is difference between food borne 'Infection' and 'Intoxication'? Discuss food borne infections and intoxications.

c) Giving appropriate examples, explain 'Innate immunity'.

Q.3 Attempt **ANY TWO** of the following: **(12)**

a) Give an outline of 'Classical pathway' and discuss biological significance of complement factors.

b) What is difference between monoclonal antibodies and polyclonal antibodies? Give the uses of monoclonal antibodies.

c) What are 'Continuous epitopes' and 'Discontinuous epitopes'? Explain the role of epitopes in immunogenicity.

Q.4 Write short notes on **ANY THREE** of the following: **(12)**

a) IgG

b) Significance of carrier proteins

c) Natural Killer cells

d) Waterborne transmission of diseases

Q.5 Attempt **ANY FOUR** of the following: **(12)**

a) Enlist the properties of adjuvants.

b) Explain the significance of IgD.

c) What are 'Acute infections' and 'Chronic infections'?

d) Define droplets, droplet nuclei and aerosoles.

e) Explain disease transmission through direct contact.

f) Describe 'Passive immunity'.

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