S.Y.B.SC. SEM – IV (CBCS - 2016 Course) : SUMMER - 2019

SUBJECT: MICROBIOLOGY: PRINCIPLES OF DISEASE, EPIDEMIOLOGY & IMMUNOLOGY

Day: Tuesday
Date: 16/04/2019

Time: 11.00 A.M. To 02.00 P.M.
Max. Marks: 60

S-2019-0845

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) Discuss the structure and functions of Ig A.

b) Giving suitable examples, explain transmission by direct contact.

c) With the help of neat and labeled diagram, discuss cytology and functions of macrophages.

Q.2 Attempt **ANY TWO** of the following: **(12)**

a) Giving suitable examples discuss the distribution and occurrence of normal flora.

b) Explain food borne transmission of diseases.

c) What are epitopes? Discuss sequential epitopes and conformational epitopes.

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

a) With suitable diagram, discuss the structure and functions of Ig M.

b) Discuss any two diseases which get transmitted through arthropod vectors.

c) Explain the protection acquired through 'Innate immunity'.

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

a) Ig G
b) NK cells
c) Adjuvants
d) Active immunity

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

a) Give the significance of Ig D.

b) What are 'carrier proteins'? Mention their significance in immunogenicity.

c) What are 'Droplets', 'Droplet nuclei' and 'Aerosols'?

d) Define the terms 'Pathogenicity' and 'Virulance'.

e) Enlist types of infectious diseases.

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