

SEAT No. \_\_\_\_\_  
[44/A-13]

No. of Printed Pages : 02

SARDAR PATEL UNIVERSITY  
B.Sc. Examination-2021  
Microbiology-Semester VI  
US06CMIC22- Immunology and Medical Microbiology

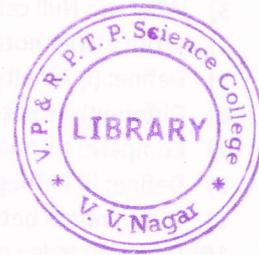
Date: 16-07-2021  
Time: 10:00 a.m. to 12:00 noon

Total Marks: 70

Q-1 Select The Right Answer.

(10)

- 1) Which of the following is a phagocytic cell?  
A. Tissue macrophages      B. Dendritic cells      C. Neutrophils      D. All of Them
- 2) Rubor, Calor, Dolor and Tumor are the signs of:  
A. Complement      B. Inflammation  
C. Phagocytosis      D. None of them.
- 3) Cytokines released from T lymphocytes are called :  
A. Lymphokines      B. Monokines  
C. Interleukins      D. None of them.
- 4) Which is the major immunoglobulin present in human serum ?  
A. IgA      B. IgE      C. IgG      D. IgM
- 5) Incomplete antigens are called:  
A. Epitomes      B. Immunogens  
C. Paratope      D. Haptens
- 6) What are antibodies ?  
A. Proteins.      B. Glycoproteins.      C. Phospholipids.      D. None of them.
- 7) Which of the following area has the highest microbial population ?  
A. Large intestine      B. Stomach      C. Respiratory tract      D. All of Them
- 8) What is the chemical nature of endotoxin ?  
A. Protein      B. Lipoprotein      C. Both A & B      D. None of them.
- 9) When disease occurs occasionally at irregular intervals, it is called:  
A. Sporadic      B. Epidemic  
C. Endemic      D. Pandemic
- 10) Which of the following is antituberculous drug ?  
A. Rifampicin      B. Pyrazinamide      C. Isoniazid      D. All of them.



(1)

(P.T.O.)

Q-2 (A) Fill in the blank.

(8)

- 1) The single diffusion in one dimension is called----- (Radial diffusion/Oudin process.)
- 2) Half life of IgE is----- (2 days/ 5 days.)
- 3) Schuffener's dots are found in----- ( P. vivax/ P. malarae infection)
- 4) The decrease in virulence of organism is called----- ( Exaltation/ Attenuation)

(B) State True OR False

- 1) Spleen is the primary lymphoid organ.
- 2) Complement does not bind with free antigen or free antibody.
- 3) Localized infection is restricted to limited area of the body.
- 4) Botulinum toxin is the type of endotoxin.

Q-3 Answer In Brief (Any 10)

(20)

- 1) Write in brief on Chronic inflammation.
- 2) Describe acute phase proteins.
- 3) What are Null cells?
- 4) Write a brief note on IgD.
- 5) Define: (i) Affinity (ii) Avidity.
- 6) Differentiate between agglutination and precipitation.
- 7) Compare: Normal animals and germ free animals.
- 8) Define: (i) Pathogenicity (ii) Virulence
- 9) Differentiate between exotoxin and endotoxin.
- 10) Define (i) Index case (ii) Morbidity rate.
- 11) Describe the treatment of Typhoid fever.
- 12) Explain briefly antigenic shift and antigenic drift.



Q-4 Write in Detail (Any Four)

(32)

- 1) What is Complement? Describe classical pathway of Complement system.
- 2) Write a note on maturation of B cells.
- 3) Describe general features of antigen-antibody reactions.
- 4) Enlist different classes of Immunoglobulin and explain IgG in detail.
- 5) Describe with suitable example the types of infection.
- 6) Write a note on normal flora of intestinal tract.
- 7) Describe clinical course of HIV infection.
- 8) Explain the life cycle of Plasmodium and describe symptoms of P. falciparum infection.

—X—

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