



BBF-003-001631

Seat No. _____

B. Sc. (Microbiology) (Sem. VI) Examination

July - 2021

MB - 601 : Immunology and Clinical Microbiology
(Old Course)

Faculty Code : 003

Subject Code : 001631

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) All questions are compulsory
(2) Figure on right indicate marks of the question
(3) Support your answer with appropriate diagrams wherever applicable.

1 Answer specifically : 20

- (1) What is antibody?
- (2) What is active immunity?
- (3) What is phagocytosis?
- (4) What is antigen?
- (5) Define Hapten.
- (6) What are epitope and paratope?
- (7) What are phagocytes?
- (8) What is interferon?
- (9) Give full forms of SCID and APC
- (10) Give examples of oral vaccine
- (11) _____ is caused by Tryponema.
- (12) Name factors responsible for blood coagulation?
- (13) WIDAL test detects which fever?
- (14) What is immunofluorescence?

- (15) What is innate immunity?
- (16) What are granulocytes?
- (17) What are different types of transplant (grafts)?
- (18) What is autoimmunity?
- (19) What is cancer?
- (20) _____ used as antibiotic for the treatment of syphilis.

2 (A) Answer specifically : (Any Three) 6

- (1) What are the properties of antigen?
- (2) What is immune response? Write its types.
- (3) What are the different types of immunity?
- (4) What is inflammation?
- (5) Explain Haemagglutination
- (6) Write differences between T cell and B cell,

(B) Answer specifically : (Any Three) 9

- (1) Explain the process of Antigen processing and presentation
- (2) Explain briefly about type - II Hypersensitivity
- (3) Explain microbial virulence factors
- (4) Explain inflammation
- (5) Explain clonal selection theory
- (6) Write about the cells of immunity

(C) Write Short notes : (Any Two) 10

- (1) Describe types of antibodies in detail.
- (2) Write a detailed account on monoclonal antibodies.
- (3) Describe the structure of immunoglobulin in detail.
- (4) Explain in detail Process of infection
- (5) Write a note on immune organs

- 3 (A) Answer specifically : (Any Three) 6**
- (1) What are tumor antigens?
 - (2) What is pathogenecity?
 - (3) What is amoiebiosis?
 - (4) What are epidemiological markers?
 - (5) Enlist various symptoms of Malaria
 - (6) What is Radioimmunoassay?
- (B) Answer specifically : (Any Three) 9**
- (1) Write a note on acquired immunity
 - (2) Describe disease caused by Mycobacteria.
 - (3) Explain food poisoning.
 - (4) Write a note on transplantation immunity.
 - (5) Explain in short immunodeficiency diseases.
 - (6) Discuss diseases caused by Mycobacterium
- (C) Write Short notes : (Any Two) 10**
- (1) Describe in detail type-II hypersensitivity.
 - (2) Explain in detail Normal flora of human body.
 - (3) Describe in detail Vaccines.
 - (4) Rapid and molecular methods of identification of microbes.
 - (5) Write a note on phagocytosis
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