P-003-001631 Seat No. _____

# Third Year B. Sc. (Sem. VI) (CBCS) Examination

**March / April - 2020**

## MB - 601 : Immunology & Clinical Microbiology

*(Old Course)*

**Faculty Code : 003**

**Subject Code : 001631**

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

**1** Answer following questions in short : **20**

(1) Who deduced the structure of antibody?

(2) What is Fab region?

(3) What is opsonization?

(4) What is affinity and avidity?

(5) Define Haptens.

(6) What is epitope and paratope?

(7) Who discovered phagocytes?

(8) What are interferons?

(9) Give full forms of SCID, CD, IL, APC

(10) Give example of oral vaccine.

(11) _____ is a technique of microscopy used in detection of Tryponema.

(12) _____ used as antibiotic for the treatment of syphilis.

(13) How many factors are responsible for blood coagulation?

(14) WIDAL test detects which fever?

(15) The dye which is used in immunofluorescence is _____.

(16) What is innate immunity?

(17) What are granulocytes?

(18) What are different types of transplants (grafts)?

(19) What is autoimmunity?

(20) What is metastasis?

2 (A) Write answer of any **three** from following : **6**

(1) What are different functions of antibodies?

(2) What is primary and secondary immune response?

(3) Write any four differences between T cell and B cell.

(4) What are different types of immunity?

(5) What are different theories of generation of antibody diversity?

(B) Write answer of any **three** from following : **9**

(1) Describe the experiment of proteolysis of antibody.

(2) Explain process of generation of antibody diversity in heavy chains.

(3) Explain various properties of antigen.

(4) Describe antigen processing and presentation.

(5) Explain inflammation.

(6) Explain clonal selection theory

(C) Write short notes : (Any **Two**) **10**

(1) Describe the structure of immunoglobulin in detail.

(2) Describe types of antibodies in detail.

(3) Write a detailed account on monoclonal antibodies.

(4) Describe anatomical and physiological barriers.

(5) Write a note on immune organs.

3 (A) Write answer of any **three** from following : **6**

(1) HIV & AIDS

(2) What is pathogenecity?

(3) Describe immunofluorescence.

(4) What is amoiebiosis?

(5) What are granulomas?

(6) Explain immune surveillance.

(B) Write answer of any **three** from following : **9**

(1) What is RIA?

(2) Describe disease caused by Mycobacteria.

(3) Explain food poisoning.

(4) Explain Rhesus incompatibility as hypersensitivity.

(5) Explain on transplantation immunity.

(6) Explain immunodeficiency diseases.

(C) Write short notes : (Any **Two**) **10**

(1) Describe in detail type-I hypersensitivity.

(2) Write a note on phagocytosis.

(3) Explain in detail Normal flora of human body.

(4) Describe in detail Vaccines.

(5) Write a note on autoimmune diseases.

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