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MAL-003-001631 Seat No. _____

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

March / April - 2018

Microbiology : MB-601

(Immunology & Clinical Microbiology)

(New Course)

Faculty Code : 003

Subject Code : 001631

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

Instructions :

(1) All questions are compulsory.

(2) Draw figures wherever required.

(3) The right side figure indicates the marks of the question.

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

(1) Define : Hapten.

(2) Give four signs of inflammation.

(3) What is phagocytic barrier ?

(4) What is Humoral immunity ?

(5) What is APC ?

(6) What is main function of IgA ?

(7) Write the types of heavy chain in the structure of immunoglobulins.

(8) Which are the types of B-cell ?

(9) What is Grave's disease ?

(10) What is MHC ?

(11) What is Arthus reaction ?

(12) What is SLE ?

(13) Write causative agent of Tuberculosis.

(14) Give full form of: VDRL, B T – C T, ELISA.

(15) Write any four normal flora of skin.

(16) Write full form of MMR and BCG.

(17) Give two example of flourescent dye.

(18) Name any two enzymes which are used in ELISA.

(19) Which isotope is generally used in RIA ?

(20) Which are the types of Blood transfusion ?

2 (a) Write in short : (any **three**) **2×3=6**

(1) What is Epitope ?

(2) Which are the types of light chain in the structure of IgA ?

(3) What is immunological tolerance ?

(4) What is GVH ?

(5) What is Haemagglutination ?

(6) What is Western blot technique ?

(b) Write in brief : (any **three**) **3×3=9**

(1) Explain Immune response.

(2) Describe IgA.

(3) Which are combined immunodeficiencies ?

(4) Explain role of 'Pharmacologically active mediator in Hypersensitivity'.

(5) Immunoelectrophoresis.

(6) Discuss : Malaria

(c) Write short notes on : (any **two**) **5×2=10**

(1) Passive Immunity

(2) Structure and function of IgG

(3) Principles of Transplantation

(4) Normal flora of Healthy Human body

(5) Precipitation Reaction.

3 (a) Write in short : (any **three**) **2×3=6**

(1) What are Adjuvants ?

(2) What is Lattice Hypothesis ?

(3) What is sensitizing and shocking dose ?

(4) Write types of infection.

(5) What is RIA ? State its advantage.

(6) Write causative agent of Tetanus and Syphilis.

(b) Write in brief : (any **three**) **3×3=9**

(1) Explain the role of T&B cells in immunity.

(2) What is Antibody affinity and avidity ?

(3) Explain Autoimmune hemolytic anaemia.

(4) Explain Epidemiological markers.

(5) Agglutination reaction.

(6) Discuss : Mycobacteria

(c) Write short notes on : (any **two**) **5×2=10**

(1) Lymphocytes

(2) Monoclonal antibody

(3) Anaphylaxis

(4) Vaccines

(5) Blood compatibility test.