

(6 pages)

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M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2018.

Second Semester

Microbiology

IMMUNOLOGY

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. For a T cell to recognize an antigen it must interact with
 - (a) Complement
 - (b) A macrophage
 - (c) B cells
 - (d) All of these
2. Sebum is
 - (a) Bacteriostatic
 - (b) Antibiotic
 - (c) Bactericidal
 - (d) A diluting fluid

3. The lymphocytes which are differentiated in to the thymus is gland are called
 - (a) Plasma cells
 - (b) T-cells
 - (c) B-cells
 - (d) Monocytes
4. Antibodies against germs in our body are formed in
 - (a) Thymus by lymphocytes
 - (b) Liver by kuffer cells
 - (c) Blood by plasma cells
 - (d) Blood by platelets
5. The most suitable method of rapid chemical diagnosis of bacterial, mycoplasmal and viral disease is
 - (a) Double Immunodiffusion
 - (b) Immuno Electrophoresis
 - (c) Two Dimensional Electrophoresis
 - (d) Counter Immuno Electrophoresis
6. The amount of antibody present in the serum of vaccinated animals is detected by
 - (a) Precipitation test
 - (b) Dot ELISA
 - (c) None of the above
 - (d) Both (a) and (b)

7. Hormone produced against allergic reaction is
- Epinephrine
 - Glucocorticoid
 - Non – epinephrine
 - Mineralocorticoid
8. The pathological condition caused by monoclonal antibodies
- Paraproteinemia
 - Gammopathy
 - Monoclonal Gammopathy
 - Hypergamma globulinemia
9. Active immunity means
- Resistance developed after disease
 - Increasing quantity of blood
 - Increasing range of heart beat
 - Resistance developed before disease
10. The term 'vaccine' was first coined by
- | | |
|-------------|------------|
| (a) Pasteur | (b) Jenner |
| (c) Koch | (d) Kohler |

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write short notes on B lymphocytes.
- Or
- (b) Give a concise account on humoral immunity.
12. (a) What are Payer's patches explain?
- Or
- (b) Give an account on alternative complement pathway.
13. (a) Explain RIA technique.
- Or
- (b) Briefly describe the Ag-Ab reaction with types.
14. (a) Give a detail note on type III hypersensitivity.
- Or
- (b) Elaborate fluorescent antibody technique.

15. (a) Discuss about anaphylaxis.

Or

(b) What are adjuvants? Explain its types.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Discuss about immune system and types.

Or

(b) Write an essay on classical complement pathway.

17. (a) Describe in detail about ELISA technique.

Or

(b) Explain the physical and chemical properties of Ig A and Ig M.

18. (a) Elaborate the different stages of B cell maturation.

Or

(b) Explain autoimmune diseases.

19. (a) Explain principle and application of WIDAL test.

Or

(b) Describe in detail about the mechanism of Tolerance.

20. (a) Describe the Type IV hypersensitivity and complication.

Or

(b) What is vaccination? Give a brief note on types of vaccine.