

## THE LIST OF APPROXIMATE QUESTIONS TO OFFSET ON IMMUNOLOGY

1. Immunology-subject, tasks, methods, basic concepts.
2. Immunity: types of immunity.
3. Immune system: Central and peripheral organs of immunity.
4. Defense cell. Interaction of cells in different forms of immune response.
5. Basic properties and structure of antigens.
6. Antigens of the human body.
7. Antigens of microorganisms.
8. Factors and mechanisms of innate immunity.
9. Antibodies (immunoglobulins). Structure of immunoglobulins. Classes and types of immunoglobulins, their properties.
10. Antigen and anti-idiotype antibodies.
11. Antigen-specific receptors of leukocytes.
12. Genetic control of the immune response.
13. Immune response: humoral and cellular.
14. Age - related features of immunity.
15. Laying and development of the immune system in the intrauterine period.
16. Immune system of newborns, children and adolescents.
17. Immune factors of breast milk.
18. Immune system in aging.
19. Features of immunity in bacterial infections.
20. Features of immunity in viral infections.
21. Features of immunity in fungal infections.
22. Features of immunity in protozoan invasions.
23. Antitumor immunity.
24. Transplacental immunity.
25. Immunological memory, immunological tolerance.
26. Human immunological examination: evaluation of the immune status, detection of antigens, specific reactions of the body to the antigen.
27. Immune response: agglutination response: indicative, deployed
28. Precipitation reaction: mechanism, types.
29. Reactions occurring with antigen neutralization: neutralization reaction in vivo, in vitro, virus neutralization reaction, hemagglutination inhibition reaction.
30. Reactions involving labeled antigens and antibodies: RIF, RIA, IFA.
31. The reaction of hemolysis: mechanism, scheme of setting, preparation of the ingredients.
32. Complement binding reaction: mechanism.
33. Skin-allergic tests. Provocative tests.
34. Hypersensitivity reactions of immediate and delayed type.
35. Primary immunodeficiency: definition, types.
36. B-link disorders: x-linked agammaglobulinemia, selective IgA deficiency, selective IgG subclass deficiency, Hyper-IgM syndrome.
37. Primary immunodeficiency with t-lymphocyte defects: severe combined immunodeficiency, viscott-Aldrich syndrome, ataxia-telangiectasia, Di Giorgi syndrome, etc.
38. Deficiency of the phagocyte system: chronic granulomatous disease, Chediak - Higashi syndrome, deficiency of leukocyte adhesion molecules, etc.
39. Defects of the complement system.
40. Etiological factors of secondary immunodeficiency.
41. Chronic fatigue syndrome.
42. Acquired immunodeficiency syndrome.
43. General characteristics of autoimmune diseases.
44. Rheumatoid arthritis: pathogenesis, clinic, laboratory diagnosis, treatment.
45. Psoriasis: pathogenesis, clinic, laboratory diagnosis, treatment.
46. Lichen planus: pathogenesis, clinical features, laboratory diagnosis, treatment.
47. Systemic lupus erythematosus: pathogenesis, clinic, laboratory diagnosis, treatment.

48. Scleroderma: pathogenesis, clinic, laboratory diagnostics, treatment.
49. Dermatomyositis, polymyositis: pathogenesis, clinic, laboratory diagnosis, treatment.
50. Sjogren's syndrome: pathogenesis, clinic, laboratory diagnosis, treatment.
51. Vasculitis: pathogenesis, clinic, laboratory diagnosis, treatment.
52. Diseases of the bronchi and lung: pathogenesis, clinical features, laboratory diagnosis, treatment.
53. Diseases of the gastrointestinal tract: pathogenesis, clinic, laboratory diagnosis, treatment.
54. Liver disease: pathogenesis, clinic, laboratory diagnosis, treatment.
55. Kidney disease: pathogenesis, clinic, laboratory diagnosis, treatment.
56. Blood diseases: pathogenesis, clinic, laboratory diagnosis, treatment.
57. Diseases of the nervous system: pathogenesis, clinic, laboratory diagnosis, treatment.
58. Diseases of the endocrine glands: pathogenesis, clinical features, laboratory diagnosis, treatment.
59. Eye diseases: pathogenesis, clinic, laboratory diagnostics, treatment.
60. Diseases of the bronchi and lung: pathogenesis, clinical features, laboratory diagnosis, treatment.
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63. Kidney disease: pathogenesis, clinic, laboratory diagnosis, treatment.
64. Blood diseases: pathogenesis, clinic, laboratory diagnosis, treatment.
65. Diseases of the nervous system: pathogenesis, clinic, laboratory diagnosis, treatment.
66. Diseases of the endocrine glands: pathogenesis, clinical features, laboratory diagnosis, treatment.
67. Eye diseases: pathogenesis, clinic, laboratory diagnostics, treatment.
68. Drug Allergy: pathogenesis, clinic, laboratory diagnosis, treatment.
69. Food Allergy: pathogenesis, clinic, laboratory diagnosis, treatment.
70. Insecticide Allergy.
71. Parasitic skin diseases: demodicosis, scabies-pathogenesis, clinic, laboratory diagnosis, treatment.
72. Principles of immunotropic therapy: substitution, immunosuppressive, immunostimulating, vaccination.
73. Immunomodulators of stimulating and correcting action.
74. Immunosuppressants.
75. Immune serum.
76. Vaccines.
77. Immunoprophylaxis.
78. Immunorehabilitation.