

BIO – ZOOLOGY ONE MARKS (CHAPTER 7,8 AND 9)

1. The disease *Shigellosis* (Bacillary dysentery) in human is caused by
a. *Shigella sp.* b. *Yersinia pestis* c. *Vibrio cholerae* d. *Clostridium tetani*
2. The disease Bubonic plague (Black death) in human is caused by
a. *Shigella sp.* b. *Yersinia pestis* c. *Vibrio cholerae* d. *Clostridium tetani*
3. The disease Diphtheria in human is caused by
a. *Corynebacterium diphtheriae* b. *Yersinia pestis*
c. *Salmonella typhi* d. *Clostridium tetani*
4. The disease Cholera in human is caused by
a. *Corynebacterium diphtheriae* b. *Yersinia pestis*
c. *Salmonella typhi* d. *Vibrio cholerae*
5. The disease Tetanus (Lock jaw) in human is caused by
a. *Corynebacterium diphtheriae* b. *Clostridium tetani*
c. *Salmonella typhi* d. *Vibrio cholerae*
6. The disease Typhoid (Enteric fever) in human is caused by
a. *Corynebacterium diphtheriae* b. *Clostridium tetani*
c. *Salmonella typhi* d. *Vibrio cholerae*
7. The disease Pneumonia in human is caused by
a. *Streptococcus pneumoniae* b. *Mycobacterium tuberculosis*
c. *Yersinia pestis* d. *Vibrio cholerae*
8. The disease Tuberculosis in human is caused by
a. *Streptococcus pneumoniae* b. *Mycobacterium tuberculosis*
c. *Yersinia pestis* d. *Vibrio cholerae*
9. The disease Common cold in human is caused by
a. *Rhino viruses* b. *Hepatitis – B virus* c. *Rubella virus* d. *Mumps virus*
10. The disease Mumps in human is caused by
a. *Rhino viruses* b. *Mumps virus* c. *Rubella virus* d. *Hepatitis – B virus*
11. The disease Measles in human is caused by
a. *Hepatitis – B virus* b. *Rubella virus* c. *Mumps virus* d. *Rhino viruses*
12. The disease Viral hepatitis in human is caused by
a. *Rhino viruses* b. *Mumps virus* c. *Rubella virus* d. *Hepatitis – B virus*
13. The disease Chicken pox in human is caused by
a. H1N1 virus b. Zoster virus c. *Flavi virus* d. *Alpha virus*
14. The disease Poliomyelitis in human is caused by
a. *Polio virus* b. Zoster virus c. *Flavi virus* d. *Alpha virus*
15. The disease Dengue fever in human is caused by
a. *Polio virus* b. Zoster virus c. *Flavi virus* d. *Alpha virus*
16. The disease Chikungunya in human is caused by
a. *Polio virus* b. Zoster virus c. *Flavi virus* d. *Alpha virus*
17. The disease Swine flu in human is caused by
a. *Polio virus* b. H1N1 virus c. *Flavi virus* d. *Alpha virus*
18. The disease Amoebiasis in human is caused by
a. *Trypanosoma species* b. *Leishmania donovani*
c. *Entamoeba histolytica* d. *Plasmodium falciparum*
19. The disease African sleeping sickness in human is caused by
a. *Trypanosoma species* b. *Leishmania donovani*
c. *Entamoeba histolytica* d. *Plasmodium falciparum*
20. The disease Kala – azar in human is caused by
a. *Trypanosoma species* b. *Leishmania donovani*
c. *Entamoeba histolytica* d. *Plasmodium falciparum*
21. The disease malaria in human is caused by

44. _____ is a substance capable of initiating an immune response.
 a. adjuvants b. immunogen c. Haptens d. antibodies
45. _____ are substance that are non-immunogenic but can react with the products of a specific immune response.
 a. adjuvants b. immunogen c. Haptens d. antibodies
46. Substances that can enhance the immune response to an antigen are called _____.
 a. adjuvants b. immunogen c. Haptens d. antibodies
47. _____ is an antigenic determinant and is the active part of an antigen.
 a. Haptens b. paratope c. Epitope d. adjuvants
48. _____ is the antigen – binding site and is a part of an antibody which recognizes and binds to an antigen.
 a. Haptens b paratope c. Epitope d. adjuvants
49. _____ is the property of a substance (antigen) that allows it to react with the products of the specific immune response.
 a. Antigenicity b. susceptibility c. specificity d. vicinity
50. Light chains (L) of an antibody molecule have molecular weight
 a. 15,000 Da b. 25,000 Da c. 35,000 Da d. 45,000 Da
51. Heavy chains (H) of an antibody molecule have molecular weight
 a. 50,000 Da b. 40,000 Da c. 60,000 Da d. 70,000 Da
52. An antibody molecule is Y shaped structure that comprises of
 a. two polypeptide chains b. six polypeptide chains
 c. four polypeptide chains d. three polypeptide chains
53. The process by which a pathogen is marked of ingestion and destruction by a phagocyte is
 a. agglutination b. precipitation c. opsonisation d. neutralization
54. Measles, Mumps and Rubella (MMR) vaccine and the Varicella (chickenpox) vaccine are
 a. live attenuated vaccine b. killed vaccine c. toxoids d. recombinant vaccine
55. DPT vaccine is the type of
 a. live attenuated vaccine b. killed vaccine c. toxoids d. recombinant vaccine
56. Hepatitis-B vaccine is the type of
 a. first generation vaccine b. second generation vaccine
 c. third generation vaccine d. DNA vaccine
57. Who discovered vaccine against rabies, anthrax and cholera.
 a. Louis Pasteur b. Dr. Edward Jenner
 c. Calmette and Guerin d. Dr. Albert Sabin
58. Who prepared first vaccine for small pox in 1796.
 a. Louis Pasteur b. Dr. Edward Jenner
 c. Calmette and Guerin d. Dr. Albert Sabin
59. Polio vaccine was developed by _____ (live attenuated oral polio vaccine).
 a. Louis Pasteur b. Dr. Edward Jenner
 c. Calmette and Guerin d. Dr. Albert Sabin
60. BCG vaccine was developed by _____ against tuberculosis in France in the year 1908.
 a. Louis Pasteur b. Dr. Edward Jenner
 c. Calmette and Guerin d. Dr. Albert Sabin
61. Allergy is a form of over active immune response mediated by
 a. IgE b. mast cells c. IgA d. both a and b
62. _____ results from the failure of one or more components of the immune system.
 a. Immunodeficiency b. allergy c. hypersensitivity d. auto immune deficiency
63. HIV is seen as a spherical virus and _____ in diameter.
 a. 50-60nm b. 80-100nm c. 100-120nm d. 160-180nm
64. At the core of HIV contain two large

- C. *Rhizopus oryzae* - iv) Acetic acid
 D. *Clostridium butyricum* - iv) Citric acid
- a. A-i B-ii, C-iii, D-iv b. A-iv B-iii, C-ii, D-i c. A-iv B-ii, C-iii, D-i d. A-iv B-i, C-ii, D-iii
85. _____ are used in detergent formulations and are used for removing oily stains from the laundry.
 a. Lipases b. amylase c. pectinase d. streptokinase
86. _____ are used as “clot buster” for removing clots from the blood vessels of patients who have undergone myocardial infarction.
 a. Lipases b. amylase c. statins d. streptokinase
87. _____ produced by the yeast *Monascus purpureus* have been used to lower blood cholesterol levels.
 a. Lipases b. amylase c. statins d. streptokinase
88. _____ an immunosuppressant used in organ transplantation is produced from the fungus *Trichoderma polysporum*.
 a. Cyclosporin A b. amylase c. statins d. streptokinase
89. It is multi- plasmid hydrocarbon-degrading bacterium which can digest the hydrocarbons in the oil spills
 a. *Pseudomonas putida* b. *Nitrosomonas europaea*
 c. *Ideonella sakaiensis* d. *Dechloromonas aromatica*
90. _____ is also capable of degrading benzene and a variety of halogenated organic compounds including trichloroethylene and vinyl chloride.
 a. *Pseudomonas putida* b. *Nitrosomonas europaea*
 c. *Ideonella sakaiensis* d. *Dechloromonas aromatica*
91. _____ is currently tried for recycling of PET plastics.
 a. *Pseudomonas putida* b. *Nitrosomonas europaea*
 c. *Ideonella sakaiensis* d. *Dechloromonas aromatica*
92. Insulin is formed of ____ amino acids which are arranged in two polypeptide chains, A and B.
 a. 45 b. 25 c. 51 d. 61
93. Insulin polypeptide chain A has ____ amino acids.
 a. 15 b. 21 c. 30 d. 51
94. Insulin polypeptide chain B has ____ amino acids.
 a. 15 b. 21 c. 30 d. 51
95. _____ was the first ever pharmaceutical product of recombinant DNA technology administered to humans.
 a. Insulin b. interferon c. vaccine d. glucagon
96. In 1997, Rosie, the first transgenic cow produced human protein enriched milk, which contained the _____.
 a. human alpha lactalbumin c. human insulin
 c. human glucagon d. human interferon
97. Therapy which involves insertion of DNA into the genome to replace the missing gene product is
 a. Gene augmentation b. Gene inhibition
 c. Gene mutation d. Gene deletion
98. Therapy which involves insertion of the anti sense gene which inhibits the expression of the dominant gene is
 a. Gene augmentation b. Gene inhibition
 c. Gene mutation d. Gene deletion
99. The recombinant vaccine for _____ was the first synthetic vaccine launched in 1997.
 a. Diabetes mellitus b. common cold
 c. malaria d. hepatitis B (HbsAg)

