



BIOLOGY

BOOKS - CENGAGE BIOLOGY (ENGLISH)

HUMAN HEALTH AND DISEASE

Exercises

1. Health is defined as

A. Complete physical well being

B. Mental well being

C. Social well being

D. All of these

Answer: D



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2. A disease which can be transferred from mother to child through placenta is

A. German measles

B. Syphilis

C. AIDS

D. All of these

Answer: D



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3. Which of the following is a bacterial disease?

A. Measles

B. Chicken pox

C. Rabies

D. Tuberculosis

Answer: D



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4. Different species of Mycobacterium cause

A. Syphilis and diphtheria

B. Whooping cough and leprosy

C. Tuberculosis and leprosy

D. Syphilis and gonorrhoea

Answer: C



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5. A disease contracted through wounds, accidents and improperly sterilised surgical instrument is

A. Tetanus

B. Gonorrhoea

C. Mumps

D. Amoebiasis

Answer: A



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6. Which one is not spread by droplet infection?

A. Tuberculosis

B. Diphtheria

C. Pertussis

D. Gonorrhoea

Answer: D



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7. *Entamoeba histolytica* is transmitted through

A. Insect bite

B. Sweat

C. Food and water contamination

D. Bird droppings

Answer: C



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8. Malarial parasite can be obtained in RBCs of patient

- A. When temperature reaches normal
- B. An hour before rise in temperature
- C. When temperature rises with rigor
- D. A few hours after temperature reaches normal

Answer: C



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9. Recurrent high fever in malaria is due to completion of

A. Erythrocytic schizony

B. Sporogony

C. Gamogony

D. Exoerythrocytic schizogony

Answer: A



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10. Which of the following disease has been completely eradicated?

A. Plague

B. Poliomyelitis

C. Smallpox

D. Kala-azar

Answer: C



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11. Which infectious disease can be treated effectively using the oil of chenopodium?

A. Ascariasis

B. Filariasis

C. Malaria

D. Poliomyelitis

Answer: A



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12. In one of the following diseases, fever must not be managed using Aspirin, instead Paracetamol is used. Which is the one?

A. Chikungunya

B. Filariasis

C. Penumonia

D. Dengue fever

Answer: D



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13. If you are advised to get a Widal test done for yourself, which disease is your doctor suspecting?

A. Typhoid

B. Cholera

C. Pneumonia

D. Filariasis

Answer: A



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14. Quartan malaria is due to

OR

Your patient shows paroxysms of malaria after every 72 hours. Which species of plasodium will be considered responsible to cause the infection

A. *P. vivax*

B. *P. ovales*

C. *P. malariae*

D. *P. falciparum*

Answer: C



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15. Which stage of plasmodium parasite is infective for man?

A. cryptomerozoite

B. Gametocyte

C. Sporozoite

D. Merozoite

Answer: C



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16. A prescription letter reads the following treatment advise-Metronidazole, Tinidazole, Emetine. Which amongst the following diseases is it dealing with ?

A. Dengue

B. Malaria

C. Amoebiasis

D. Pneumonia

Answer: C



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17. Which type of cancer can be caused by exposure to cadmium oxide over a long period of time ?

A. A.Vagina

B. B.Prostate gland

C. C.Skin

D. D.Lung

Answer: B



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18. A plant called Sadabahar is known to produce an anticancer drug known as

A. a.Taxol

B. b.Vincristine

C. c.Colchicine

D. d.Cyclosporine

Answer: B



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19. A cancerous condition known as Burkitt's lymphoma is known to be caused by virus like

A. A.Rous sarcoma virus

B. B.Herpes simplex virus

C. C.Epstein Barr virus

D. D.Hepatitis B virus

Answer: C



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20. The genome of HIV, the causative organism of AIDS, is made up of

A. ssRNA

B. ssDNA

C. dsRNA

D. dsDNA

Answer: A



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21. Which molecule is used for the attachment of HIV to CD4 receptor on the cell?

A. GP 120

B. P24

C. GP41

D. P17

Answer: A



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22. Which term would you use for the combination of diseases such as Kaposi's sarcoma, Pneumocystis carinii pneumonia, and Leukoplakia ?

- A. Contagious disease
- B. Opportunistic diseases
- C. Diarrhoeal disease
- D. Autoimmune disease

Answer: B



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23. Which amongst the following can be considered as a part of ART (anti-retroviral therapy) ?

A. Procaine

B. Novacaine

C. Zidovudine

D. Colchicine

Answer: C



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24. Which of the following will be included under innate immunity?

A. Mucus membrane

B. Interferons

C. Natural killer cells

D. All of these

Answer: D



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25. Interferon is a protein that

A. Inactivates a virus

B. Protects unattacked cells from virus

C. Prevents viruses from taking over the
cellular machinery

D. Both 2 and 3

Answer: D



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26. Which of the following is not true for interferon?

A. These act outside the cells.

B. These are quick acting.

C. Their action is long lasting.

D. These act against viruses.

Answer: C



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27. What is the role of complement in the body's defense ?

- A. It interferes with viral replication.
- B. It is involved with antibody production.
- C. It aids antigen presentation.
- D. It causes cell lysis.

Answer: D



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28. Natural killer (NK) cells can destroy

- A. Invading microorganisms

B. Virus infected cells

C. Some tumor cells

D. All of these

Answer: D



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29. The opposite to innate immunity is:

A. Passive immunity

B. T-cells immunity

C. Phagocytosis

D. Acquired immunity

Answer: D



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30. Active immunity is obtained by

A. Natural resistance

B. Antibiotics

C. Weakened germs infection

D. None of these

Answer: C



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31. Immunity acquired after an infection is

A. Active immunity

B. passive immunity

C. Innate immunity

D. Both 2 and 3

Answer: A



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32. Which of the following immunity is conferred by the transfer of immune products such as antibodies from an individual into a non-immune individual?

A. Adaptive immunity

B. Specific immunity

C. Active immunity

D. Passive immunity

Answer: D



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33. Active immunity is due to

A. Memory cells

B. Killer T-cells

C. Helper T-cells

D. Suppressor T-cells

Answer: A



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34. The cell which plays a major role in host defense against tumor cells and the cells infected with viruses is

A. B-lymphocytes

B. Interferons

C. NK-cell

D. Neutrophils

Answer: C



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35. Antigenic determinant site binds to which portion of an antibody molecules?

- A. A.Light chanis
- B. B.heavy chains
- C. C.Intermediate chains
- D. D.Both 1 and 2

Answer: D



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36. Antibody is

A. A substance that specifically inactivates
an antigen

B. Phagocyte that feeds on invading
pathogen

C. Cellular component of blood

D. Secretion of RBC

Answer: A



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37. The type of immunoglobulin present in the colostrum secreted by mammary glands is:

A. IgD

B. IgE

C. IgG

D. IgA

Answer: D



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38. The type of immunoglobulin whose function is possible antigen recognition by B-cells may be

A. IgE

B. IgA

C. IgD

D. IgA

Answer: C



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39. Opsonization is carried out by:

A. IgM

B. IgA

C. IgD

D. IgG

Answer: D



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40. Which of the following antibody is related to allergic response?

A. a.IgA

B. b.IgD

C. c.IgE

D. d.IgG

Answer: C



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41. Which of the following is not a difference between IgG and IgM?

A. a.IgM is a pentamer while IgG is a monomer.

B. b.IgG is formed early during the primary response, IgM is formed later.

C. c.IgG can cross the placenta, IgM usually does not.

D. d.IgG has two antigen binding sites, IgM has ten.

Answer: B



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42. Hepatitis B vaccine is a:

A. Interferon

B. First generation vaccine

C. Second generation vaccine

D. Third generation vaccine

Answer: C



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43. Which of the following is/are examples/s of autoimmune disease ?

- A. Multiple sclerosis
- B. Insulin dependent diabetes
- C. Rheumatoid arthritis
- D. All of these

Answer: D



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44. An auto-immune disease is

A. Hemophilia

B. AIDS

C. Allergy

D. Myasthenia gravis

Answer: D



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45. One of the following drugs depresses (switch off) the activities of Nervous System and is known as sedative. It gives feeling of calmness, relaxation, or drowsiness. It is

A. Opium

B. Heroin

C. Cocaine

D. Barbiturate

Answer: D



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46. Sleeping pills contain

A. Benzodiazepines

B. Psilocybin

C. Tranquilizers

D. LSD

Answer: A



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47. Opium is obtained from which part of poppy plant?

A. Leaf

B. Flower

C. Root

D. Fruit

Answer: D



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48. Which of the following is obtained from *Papaver somniferum*?

A. Opium

B. Heroin

C. Methadone

D. All of these

Answer: D



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49. Marijuana is obtained from

A. Ergot

B. Cannabis

C. Papaver

D. Coffea

Answer: B



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50. Which of the following belongs to "pain killers"?

A. Sedatives

B. Opiates

C. Hallucinogens

D. Stimulants

Answer: B



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51. One of the following is called lockjaw.

Which one ?

A. Whooping cough

B. Tetanus

C. Hepatitis

D. Hydrophobia

Answer: B



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52. Quartan malaria is caused by Plasmodium

A. Plasmodium vivax

B. P. ovale

C. P. falciparum

D. P. malariae

Answer: D



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53. The cancer caused in tissue derived from mesoderm such as connective tissues (bones, cartilages, tendons) is known as

- A. A.Leukemia
- B. B.Sarcomas
- C. C.Carcinomas
- D. D.None of these

Answer: B



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54. Liver cancer is caused by

A. Aflatoxin

B. N-nitroso dimethylene

C. Cadmium oxide

D. Mustard gas

Answer: A



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55. Antihistamine relieves

A. Nephritis

B. Allergy

C. Stroke

D. Angina pectoris

Answer: B



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56. Leprosy is due to a

- A. Mycobacterium
- B. Corynebacterium
- C. Trypanosoma
- D. Neisseria

Answer: A



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57. A disease that destroys the dorsal horn cells of the spinal cord is:

A. Polio

B. Malaria

C. Leprosy

D. Arthritis

Answer: A



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58. Malarial parasite can be best obtained from the patient

- A. During fever
- B. Before temperature rise
- C. After temperature becomes normal
- D. All of these

Answer: A



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59. Entamoeba histolytica causes:

- A. Chicken pox
- B. Tetanus
- C. Dysentery
- D. Elephantiasis

Answer: C



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60. Filariasis is caused by

A. *Wuchereria bancrofti*

B. *Glossina palpalis*

C. *Phlebotomus argentipes*

D. All of these

Answer: A



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61. Neoplasms are

A. Nuclei with massive DNA

B. Cells without covering membranes

C. Cells capable of unlimited division

D. Newly produced cells formed through
uncontrolled cell proliferation

Answer: D



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62. In leukemia, there is tremendous increase in the number of

A. RBCs

B. Immature cells

C. WBCs

D. Both white blood cells and immature cells

Answer: D



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63. Carcinogen present in coal tar is

A. Nitroso dimethylen

B. 3,4-Benzopyrene

C. 2-Naphthylamine

D. 4-amino biphenyl

Answer: B



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64. A disease which often produces deformities of fingers and toes is

A. Poliomyelitis

B. Tuberculosis

C. Typhoid

D. Leprosy

Answer: D



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65. Which of the following statement is incorrect ?

A. Epitopes are antigen-determining sites which are recognized by antibodies.

B. Nowadays, for the treatment of cancer, the patients are given substances called biological response modifiers such as α -interferon which activate their immune system and help in destroying the tumor.

C. Toxoids provide passive immunity.

D. "ATS" (anti tetanus serum) provides us
artificially acquired passive immunity.

Answer: C



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66. The side-effects of the use of anabolic steroids in females include

a. Masculinization (feature like meles)

b. Increases aggressiveness

c. Mood swings

d. Premature baldness

Choose the correct option:

A. a and b only

B. a, b and c only

C. a only

D. a, b, c, and d

Answer: B



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67. Which of the following is incorrect with respect to HIV infection?

A. HIV/AIDS is not spread by mere touch or physical contact, it spreads only through body fluids.

B. Macrophages continue to produce virus and, in this way, act like an HIV factor

C. HIV enters into the helper T-lymphocytes (T_H), replicates, and produces progeny virus which leads to a progressive

decrease in the number of helper T-lymphocytes in the body of infected person.

D. HIV does not get transmitted through organ transplant from an HIV infected person.

Answer: D



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68. If a person is infected with some deadly microbes to which quick immune response is required as in tetanus, the doctor needs to directly inject

- A. Antigenic protein of pathogen
- B. Inactivated/weakened pathogens
- C. Killed pathogens
- D. Preformed antibodies/antitoxin

Answer: D



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69. Which of the following lymphoid organ does not provide the sites for the interaction of lymphocytes with the antigen, which then proliferate to become effector cells ?

- A. A.Tonsils
- B. B.Peyer's patches
- C. C.T-lymphocytes
- D. D.B-lymphocytes

Answer: C



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70. Humoral immunity is associated with

- A. B-lymphocytes
- B. T-lymphocytes
- C. L-lymphocytes
- D. P-lymphocytes

Answer: A



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71. Passive immunity is one which is obtained by injection

A. Antibiotics

B. Vaccines containing weakened germs

C. Antibodies

D. Antigens

Answer: B



72. During allergic reactions, the destructive substances produced are

- A. Allergens
- B. Histamines
- C. Immunoglobulins
- D. Antibodies

Answer: D



73. B- and T-cells required for immune system are produced in

- A. A. Bone marrow cells
- B. B. Spleen
- C. C. Lymph nodes
- D. D. Bone marrow and thymus

Answer: A



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74. On the basis of heavy chains, immunoglobulins are classified into how many types ?

A. A.Two

B. B.Three

C. C.Four

D. D.Five

Answer: D



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75. The process in which all micro-organisms are killed by heat treatment is known as

A. Pasteurization

B. Immunity

C. Sterilization

D. None of these

Answer: C



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76. Vaccination against small pox means the introduction into our body, of

- A. Lecucoytes obtained from animals
- B. Antibodies produced in other animal
- C. Antibodies
- D. Attenuated smallpoz virus

Answer: A



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77. Hypersensitivity to an allergen is associated with

A. Aberrant functioning of the immune mechanism

B. Increase in ambient temperature

C. Age of the individual

D. Food habits

Answer: A



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78. Antibodies are produced by

A. Lymphocytes

B. Leucocytes

C. Monocytes

D. Spleen

Answer: A



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79. What is vaccination ? Mention the four ways in which vaccines are prepared, giving the name of one disease for which each type of vaccine is used.

A. Vitamins

B. Blood

C. Serum

D. Plasma

Answer: C



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80. Which one of the following is true for T-lymphocytes?

A. They cannot release antibodies.

B. They mature in lymph nodes.

C. They comprise 10 – 15 % of lymphocytes.

D. They are principle cells in lymph nodes' cortical center.

Answer: D



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81. Certain children are immune to certain disease due to

- A. T-cells immune system
- B. B-cells immune system
- C. Memory cells
- D. Phagocyte-antigen reaction

Answer: C



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82. Mast cells secrete a protein, which causes the dilation of blood vessels. The protein is

- A. Pyrogens
- B. Histamine
- C. Interferon
- D. None of these

Answer: B



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83. The cells, which suppress the entire immune system from its attack in the same body, are known as

- A. Helper T-cells
- B. Killer B-cells
- C. Suppressoe cells
- D. Suppressor T-cells

Answer: D



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84. Memory cells are

A. Cells responsible for immunologic memory

B. Antigens

C. Cells of cerebrum

D. Cells responsible for memory in brain

Answer: A



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85. An auto immune diseases is

A. A.B-lymphocytes induced

B. B.Hemophilia

C. C.Myasthenia gravis

D. D.None of these

Answer: C



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86. Hormone produced against allergic reactions is:

- A. A.Epinephrine
- B. B.Nor-epinephrine
- C. C.Glucocorticoid
- D. D.Mineralocorticoid

Answer: A



87. The antigen binding site of an antibody is present at

- A. Light chain
- B. Strong chain
- C. Variable position
- D. Any of above

Answer: C



88. Active immunity means

A. A. Resistance developed after disease

B. B. Resistance developed before disease

C. C. Increasing rate of heart beat

D. D. Increasing quantity of blood

Answer: A



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89. The B-and T-cells that are cirtical for immune system are produced in

- A. Bone marrow
- B. Lymphoid
- C. Spleen
- D. None of the above

Answer: C



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90. The site of B-cell maturation in the human body is:

- A. Thymus
- B. Tonsils and adenoids
- C. Not yet indentified
- D. Brain and spinal cord

Answer: C



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91. Which antibody molecule is made of two monomers ?

A. IgM

B. IgG

C. IgA

D. IgE

Answer: D



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92. Allergens are

- A. Certain microbes which are pathogenic
- B. Weak antibodies produced by certain substances in the body
- C. Weak antigens which produce sensitive reactions in the body
- D. None of these

Answer: C



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93. Immunoglobulin related with opsonization is

A. IgA

B. IgM

C. IgE and IgG

D. IgA

Answer: C



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94. Antiserum contains

A. Antigen

B. Leucocytes

C. Antibodies

D. None of these

Answer: C



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95. The type of immunoglobulin present in the colostrum secreted by mammary glands is

A. IgA

B. IgG

C. IgD

D. IgE

Answer: A



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96. Gamma -Globulins are synthesised in

A. Lymph and lymph nodes

B. Liver

C. Bone marrow

D. Kidney

Answer: A



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97. Which is not a immunological technique?

A. Antibiotic injection

B. Tetanus toxoid

C. Gamma-globulin

D. Smallpox vaccination

Answer: A



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98. Which is wrong ?

A. Body's first line of defense is skin.

B. The second line of defence is skin and phagocytic cells.

C. The third line of defense is immune system.

D. Line of body defense are skin, phagocytic cells, and immune system.

Answer: B



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99. Squeezing of leucocytes from capillary walls is

- A. Diakinesis
- B. Diapedesis
- C. Diapause
- D. Diaphysis

Answer: B



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100. Binding of antigen to antibody is through

A. A.Electrostatic interactions

B. B.Covalent bonds

C. C.Issacs and Lindermann

D. D.Randles

Answer: A



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101. Interferon was discovered by

A. A.Gajdusek

B. B.Stanley and Prusiner

C. C.Isaacs and Lindermann

D. D.Randles

Answer: C



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102. Antibodies are produced by

A. B-lymphocyte

B. T-lymphocyte

C. Monocytes

D. RBCs

Answer: A



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103. AIDS contains or Human immuno deficiency (HIV) virus has protein coat and genetic material which is

- A. Characterized by a reduction in the number of killer T-cells
- B. An autoimmune disease
- C. Characterized by a reduction in the number of helper T-cells
- D. The result of the inability of the body to produce interferons

Answer: C



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104. Which of the following is a water borne disease ?

A. Smallpox

B. Malaria

C. Tuberculosis

D. Cholera

Answer: D



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105. AIDS related complex (ARC) is a disease which leads to fever, swollen lymph nodes, night sweats, loss in weight etc. represents

- A. Severe form of AIDS
- B. Initial form of AIDS
- C. No link with AIDS
- D. None of the above

Answer: B



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106. Bhang, charas, and ganja are resinous materials of Cannabis indica and are psychotropic intoxicating drugs. These drugs are used as

A. Hallucinogens

B. Narcotics

C. Stimulants

D. Sedatives

Answer: A



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107. "Brown sugar" is the commonly used name for

A. LSD

B. Hashish

C. Heroin

D. Barbiturates

Answer: C



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108. Bhang and hemp are obtained from

- A. *Mesua ferrea*
- B. *Cannabis sativa*
- C. *Viola odorata*
- D. *Centella asiatica*

Answer: B



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109. The use of cannabis products (bhang, charas, ganja, marijuana, and hashish)

- A. Causes depression of brain activity and feeling of calmness
- B. Alters thought, perception, and feelings
- C. Suppresses brain function and relieves pain
- D. Stimulates the nervous system and increases alertness and activity

Answer: B



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110. Caffeine, amphetamine and concaine are

- A. Sedatives
- B. Tranquilizers
- C. Stimulants
- D. Hallucinogens

Answer: C



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111. Heroin is obtained from the plant of the family:

A. A.Leguminosae

B. B.Papaverceae

C. C.Liliaceae

D. D.Solanaceae

Answer: B



112. Liver damage caused by excessive drinking of alcohol is called

- A. A.Hepatitis
- B. B.Dermatitis
- C. C.Liver cirrhosis
- D. D.Liver diarrhoea

Answer: C



113. Addiction of LSD will eventually lead to:

A. A.Hallucination

B. B.Damage of lungs

C. C.Mental and emotional disturbances

D. D.Damage to kidneys

Answer: D



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114. The substance that causes addiction to tobacco is

A. Caffeine

B. Nicotine

C. Cocaine

D. Histamine

Answer: B



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115. Hallucinogen drug among the following is

A. Lysergic acid diethylamide

B. Heroin

C. Morphine

D. Cocaine

Answer: A



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116. mental depression is caused by diminished activity of :

- A. Histamine
- B. Norepinephrine
- C. Dopamine
- D. All of these

Answer: B



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117. The final stage of drug addiction leads to :

- A. Drug immunity
- B. Drug dependence
- C. Drug resistance
- D. All of these

Answer: B



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118. The use of tobacco was originated in :

A. India

B. Africa

C. America

D. Germany

Answer: C



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119. Sleeping pills are made from:

A. Barbiturates

B. Amphetamines

C. Cocaine

D. LSD

Answer: A



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120. The term 'brown sugar' is used for

A. A. Diacetylmorphine hydrochloride

B. B. 9-Tetrahydrocannabinol

C. C.Lysergic acid diethylamide

D. D.Acetyl salicylate

Answer: A



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121. Central Institute of mental Reterdation
(CIMR) is situated at:

A. A.Agra

B. B.New Delhi

C. C.Thiruvananthapuram

D. D.Guwahati

Answer: C



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122. AIDS Day is observed on

A. A.1 st December

B. B.20th December

C. C.1st June

D. D.1st May

Answer: A



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123. In India, maximum death cases in children occur due to

A. a.Measles

B. b.TB

C. c.Diphtheria

D. d.None of these

Answer: A



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124. Community health aims at

A. Better health and family planing

B. Better hygiene and clean environment

C. Removing communicable diseases

D. All the above

Answer: D



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125. Which of the following is equivalent to madness?

- A. Neurosis
- B. Psychosis
- C. Epilepsy
- D. All of these

Answer: B



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126. Cancer is related to

A. Uncontrolled growth of tissue

B. Old age

C. Controlled division of tissues

D. None of the above

Answer: A



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127. Infection of *Ascaris* usually occurs by

- A. Eating imperfectly cooked prok
- B. Contaminated water and vagectables
- C. Mosquito bite
- D. Tesetse fly

Answer: B



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128. Trypanosomiasis is transmitted by

A. May fly

B. Fire fly

C. Tsetse fly

D. Louse

Answer: C



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129. Syphilis is a sexually transmitted disease caused by

A. Pasteurella

B. Leptospira

C. Treponema pallidum

D. Vibrio

Answer: C



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130. Influenza virus has

A. DNA

B. RNA

C. Both DNA and RNA

D. Only proteins and no neucleic acids

Answer: B



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131. Diphtheria is caused by

A. Poisons released from dead bacterial cells into the host tissues

B. Poisons released by living bacterial cells into the host tissues

C. Excessive immune response by the host's body

D. Poisons released by virus into the host tissues

Answer: B



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132. A bacterial disease cholera is accompanied by

- A. Peptic ulcers
- B. Rapid loss of fluid from the intestine
- C. Infection of heart muscles
- D. Rose spots

Answer: B



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133. Hepatitis B is caused by:

A. RNA virus

B. DNA virus

C. Mycoplasma

D. Rickettsia

Answer: B



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134. Dengue virus has generic material

A. dsRNA

B. dsDNA

C. ssRNA

D. ssDNA

Answer: C



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135. Schick test is used for the diagnosis of

A. TB

B. AIDS

C. Diphtheria

D. Malaria

Answer: C



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136. Polio' is caused by

- A. Virus with double-standed DNA
- B. Virus with double-standed RNA
- C. Virus with single-standed DNA
- D. Virus with single-standed RNA

Answer: D



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137. Electron beam therapy is a kind of radiation therapy to treat

- A. Enlarged prosted gland
- B. Gall bladder stones by brbreaking them
- C. Certain types of cancer
- D. Kidney stones

Answer: C



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138. The treatment of snake-bite by antivenine is an example of

- A. Artificially acquired active immunity
- B. Artificially acquired passive immunity
- C. Naturally acquired passive immunity
- D. Specific natural immunity

Answer: B



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139. An insect bite may result in inflammation of that spot. This is triggered by the alarm chemicals such as

A. a.Histamine and dopamine

B. b.Histamine and kinin

C. c.Interferons and opsonin

D. d.Interferons and histones

Answer: B



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140. The antigen binding site of an antibody is present at

A. Two light chains

B. Two heavy chains

C. One heavy and one light chain

D. Either between two light chains or between one heavy and one light chain depending upon the nature of antigen

Answer: C



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141. The vaccination for which one of the following diseases is not covered in the immunization schedule so far?

A. Tuberculosis

B. Diphtheria

C. Measles

D. Pneumonia

Answer: D



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142. A young drug addict used to show symptoms of depressed brain activity, feeling of calmness, relaxation and drowsiness.

Possibly he was taking:

A. Amphetamine

B. Marijuana

C. Pethidine

D. Valium

Answer: D



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143. The disease, tetanus is also known as:

A. Gangrene

B. Shingles

C. Lockjaw

D. Whooping cough

Answer: C



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144. Smallpox and rabies are caused by:

A. Virus

B. Protozoan

C. Typhoid

D. Polio

Answer: A



[Watch Video Solution](#)

145. Which is a viral disease?

A. Tetanus

B. Dysentery

C. Typhoid

D. Polio

Answer: D



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146. Broad spectrum antibiotics are those which

A. Act on all bacteria and viruses

B. Are effective in very small amounts

C. Act on both pathogen and host

D. Act on a variety of pathogenic
microorganisms

Answer: D



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147. Which is not a type of T-lymphocyte?

- A. Helper
- B. Suppressor
- C. Cytotoxic
- D. Repressor

Answer: D



Watch Video Solution

148. which is not cancer ?

A. Leukemia

B. Trachoma

C. Carcinoma

D. Sarcoma

Answer: B



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149. AIDS contains or Human immuno deficiency (HIV) virus has protein coat and genetic material which is

A. ssRNA

B. daRNA

C. dsRNA

D. ssDNA

Answer: A



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150. The Widal test is performed for

A. Malaria fever

B. Cholera

C. Typhoid fever

D. Dengue fever

Answer: C



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151. Allergy involves

A. IgE

B. IgG

C. IgA

D. IgM

Answer: A



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152. Hepatitis B is also called:

- A. Epidemic jaundice
- B. Serum jaundice
- C. Catarrhal jaundice
- D. None of the above

Answer: B



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153. Most radiosensitive tissue of body is :

A. Bone marrow

B. Platelet

C. Nervous tissue

D. Lymphocyte

Answer: A



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154. DPT provides immunity against

A. Diphtheria

B. Whooping cough

C. Tetanus

D. All of these

Answer: D



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155. In India, AIDS was reported in

A. 1932

B. 1986

C. 1990

D. 1992

Answer: B



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156. Plague is caused by

A. *Diplococcus pneumoniae*

B. *Yersinia pestis*

C. *Corynebacterium diphtheriae*

D. All of the above

Answer: B



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157. An antibody is a

A. White corpuscle which attacks invading
bacteria

B. Molecule that specifically inactivates an
antigen

C. Component of the blood

D. Secretion of mammalian erythrocyte

Answer: B



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158. ELISA is used to

A. Antibodies

B. Viral disease

C. AIDS

D. All of these

Answer: D



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159. The vaccine of hepatitis B is/an

- A. First-generation vaccine
- B. Interferon
- C. Second-generation vaccine
- D. Third-generation vaccine

Answer: C



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160. Cancer cells are characterized by

- A. Uncontrolled growth
- B. Invasion of local tissue
- C. Spreading to other body parts
- D. All of the above

Answer: D



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161. Kala-azar disease is caused by

- A. *Trypanosoma gambiense*

B. *Wuchereria bancrofti*

C. *Leishmania donovani*

D. *Taenia solium*

Answer: C



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162. Leprosy' is caused by

A. *Mycobacterium*

B. *Salmonella*

C. Mucocystis

D. TMV

Answer: A



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163. The disease caused by *Entamoeba gingivalis* is transmitted by

A. Flies

B. Kissing

C. Using the same bowl

D. kissing and using the same bowl

Answer: D



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164. Bacillary dysentery is due to:

A. Salmonella

B. Shigella

C. Proteus

D. Entamoeba

Answer: B



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165. If a person shows production of interferons in his body, the chances are that he has got an infection of

A. Typhoid

B. Measles

C. Tetanus

D. Malaria

Answer: B



Watch Video Solution

166. Jaundice is caused by

A. Contaminated water

B. Pork

C. Excessive sugar

D. Excessive eating of curcuma

Answer: A



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167. Tuberculosis is caused by

A. Mycobacterium

B. Vibrio

C. Clostridium

D. None of these

Answer: A



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168. Pulse-Polio programme is organised in our country

- A. To cure polio
- B. To eradicate polio
- C. To spread polio
- D. None of these

Answer: B



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169. Chicken pox is caused by

A. Adenovirus

B. Varicella virus

C. SV-40 virus

D. Bacteriophage T-2

Answer: B



Watch Video Solution

170. Dengue fever' is caused by

A. Bacteria

B. Plasmodium

C. Virus

D. Entamoeba histolytica

Answer: C



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171. Mumps is a

- A. Viral disease
- B. Fungal disease
- C. Bacterial disease
- D. Protozonal disease

Answer: A



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172. It helps in differentiation of cells of immune system

A. Cortisol

B. Thyroxine

C. Thymosin

D. Steroid

Answer: C



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173. The complexes formed during immune complex mediated hypersensitivity are removed by:

- A. Eosinophils and T-cells
- B. Monocytes and B-cells
- C. Eosinophils and monocytes
- D. Eosinophils and basophils

Answer: C



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174. How does antigen-determinant differ from antigen binding site?

- A. Location
- B. Function
- C. Structure
- D. All the above

Answer: D



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175. The letter T in lymphocyte refers to

A. Thyroid

B. Thymus

C. Thalamus

D. Tonsil

Answer: B



Watch Video Solution

176. After entering T-cell, HIV first forms

A. mRNA

B. ssDNA

C. dsDNA

D. dsRNA

Answer: D



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177. The predominant antibody in saliva is

A. IgA

B. IgDD

C. IgC

D. IgM

Answer: A



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178. Which one of the following techniques is safest for the detection of cancers -

A. Magnetic resonance imaging

B. Radiography

C. Computed tomography

D. Histopathological study

Answer: A



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179. Which one of the following can not be used for preparation of vaccines against plague

A. Heat-killed suspension of virulent bacteria

B. Formaline-inactivated suspension of virulent bacteria

C. A virulent live bacteria

D. Synthetic capsular polysaccharide material

Answer: C



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180. Cri-du-chat syndrome in humans is caused by the

A. Fungi

B. Nematodes

C. Viruses

D. Bacteria

Answer: A



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181. Which one of the following statements is correct with respect to AIDS?

A. Durg addiccts are least susceptible to HIV infection.

B. AIDS patients are being fully cured cent percent with proper care and natrition.

C. The causative HIV retrovirus enters helper T-lymphocytes, thus, reducing their number.

D. HIV can be transmitted through eating food together with an infected person.

Answer: C



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182. AIDS does not spread through

- A. Using a syringe used by an AIDS patient
- B. Contact with clothes of an AIDS patient
- C. Mother with AIDS to the fetus during pregnancy
- D. Breast feeding by AIDS-suffering mother to a child

Answer: B



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183. Vaccine against rabies was first developed by

A. Jenner

B. Shull

C. Pasteur

D. Goror

Answer: C



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184. At which stage of HIV infection does one usually show symptoms of AIDS?

A. When the infecting retrovirus enters host cells.

B. When viral DNA is produced by reverse transcriptase.

C. When HIV replicates rapidly in helper T-lymphocytes and damages large number of these,

D. Within 15 days of sexual contact with an infected person.

Answer: C



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185. A certain patient is suspected to be suffering from Acquired Immuno Deficiency Syndrome Which diagnostic technique will you recommend for its detection?

A. ELISA

B. MRI

C. Ultrasound

D. Widal

Answer: A



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186. Out of the following, which disease is caused by virus ?

A. Malaria

B. Influenza

C. Diphtheria

D. Typhoid

Answer: B



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187. Bubonic plague is transmitted by

A. House fly

B. Tsetes fly

C. Rat flea

D. Mosquito

Answer: C



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188. The disease caused by viruses is

A. Tuberculosis

B. Smallpox

C. Cholera

D. Typhoid

Answer: B



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189. Paraplegia refers to the paralysis of

A. Both legs

B. Both upper limbs

C. The entire body

D. Only one limb

Answer: A



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190. Which of the following diseases is not transmitted by houseflies?

A. Yellow fever

B. Typhoid

C. Syphilis

D. Tetanus

Answer: A



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191. During injury mast cells secrete

A. Histamine

B. Heparin

C. Prothrombin

D. Antidodies

Answer: A



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192. Agglutination occurs in blood present in a test tube. This indicate

- A. Antibodies are present in plasma
- B. Antigens are present on RBC
- C. Antigens are present in plasma
- D. Antibodies are present on RBC

Answer: B



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193. LSD is

A. Hallucinogenic

B. Sedative

C. Stimulant

D. Tranquilizer

Answer: A



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194. Which of the following is used in the treatment of Thyroid cancer : -

A. I131

B. U238

C. Ra224

D. C14

Answer: A



195. Cancerous cells can easily be destroyed by radiations due to :-

- A. Rapid cell division
- B. Lack of nutrition
- C. Fast mutation
- D. Lack of oxygen

Answer: A



196. Carcinoma refers to

A. Malignant tumors of the connective tissue

B. Malignant tumors of the skin or mucus membrane

C. Malignant tumors of colon

D. Bening tumors of the connective tissue

Answer: B





197. Short-lived immunity acquired from mother to foetus across placenta or through mother's milk to the infant is categorized as:

- A. Active immunity
- B. passive immunity
- C. Cellular immunity
- D. Innate non-specific immunity

Answer: B



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198. What is true about T-lymphocytes in mammals : -

A. There are three main types, cytotoxic T-cells, helper T-cells, and suppressor T-cells.

B. These originate in secondary lymphoid tissues.

C. These scavenge damaged cells and cellular debris.

D. These are produced in thyroid.

Answer: A



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199. ELISA is used to detect viruses where the key reagent is : -

A. Alkaline phosphates

B. Catalase

C. DNA probe

D. Rnase

Answer: A



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200. Cancer cells are more easily damaged by radiation than normal cells because they are

A. Undergoing rapid division

B. Different in structure

C. Non-dividing

D. Starved of mutation

Answer: A



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201. ELISA is used to detect viruses where the key reagent is : -

A. Southern blotting is done

B. Alkaline phosphatase is the key reagent

C. Catalase is the key reagent

D. DNA probes are required

Answer: B



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202. Damage to thymus in a child may lead to

A. A reduction in hemoglobin content of
blood

B. A reduction in stem cell production

C. Loss of antibody mediated immunity

D. Loss of cell mediated immunity

Answer: D



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203. AIDS is caused by HIV that principally infects

A. All lymphocytes

B. Activator B-cells

C. T-4 lymphocytes

D. Cytotoxic T-cells

Answer: C



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204. Which one of the following depresses brain activity and produces feelings of calmness, relaxation and drowsiness?

A. Hashish

B. Morphine

C. Amphetamines

D. Valium

Answer: D



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205. Antibodies in our body are complex

A. Prostaglandins

B. Glycoproteins

C. Lipoproteins

D. Steroids

Answer: D



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206. Mast cells secrete

A. Histamine

B. Haemoglobin

C. Hippurin

D. Myoglobin

Answer: B



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207. The most active phagocytic white blood cells are

- A. Lymphocytes and macrophages
- B. Eosinophils and lymphocytes
- C. Neutrophils and monocytes
- D. Neutrophils and eosinophils

Answer: C



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208. Cornea transplant in humans is almost never rejected. This is because

- A. It has no blood supply
- B. It is composed of enucleated cells
- C. It is a non-living layer

D. Its cells are the least penetrable by
bacteria

Answer: D



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209. Which of the following statements regarding the disease typhoid is/are correct ?

(i) *Salmonella typhi* are the pathogenic bacteria which enter human intestine through contaminated food and water migrate to

other organs through blood.

(ii) Sustained high fever($39^{\circ}C$ to $40^{\circ}C$), weakness, stomach pain, constipation, headache and loss of appetite are some common symptoms of typhoid.

(iv) Widal test is used for diagnosis of typhoid fever.

(v) The patient of this disease is not required to be treated with antibiotics.

A. (i) and (ii)

B. (ii) and (v)

C. (i),(ii) and (v)

D. (i),(ii), (iii) and (IV)

Answer: A



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210. Select the correct option showing the life cycle of Plasmodium.

A. Sporozoties (human) → RBCs → liver cells → gemetocytes in blood → blood meal, bite (female mosquito) →

multiply (mosquito) → sporozoties

(mosquito)

B. Sporozotic (human) → liver cells →

RBCs → gametocytes in blood →

blood meal, bite (female mosquito) →

multiply (mosquito) → sporozoties

(mosquito)

C. Gametocytes (mosquito) → bite →

gametocytes (human) → RBCs →

multiply → sporozoites blood meal

(human) → bite → sporozoites

(female mosquito) → multiply

(mosquito) → gametocytes (mosquito)

D. Sporozotic (human) → liver cells →

(female mosquito) → multiply

(mosquito) → sporozoites (mosquito)

Answer: B



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211. Identify the marking A, B, C and D if figure 8.20 and select the correct option.



A. A-light chain, B-heavy chain, C-antigen binding sites, D-disulphide bonds

B. A-disulphide bonds, B-antigen binding site, C-heavy chains, D-light chain

C. A-antigen binding sites, B-light chain, C-heavy chains, D-disulphide bonds

D. A-antigen binding sites, B-disulphide bonds, C-light chains, D-heavy chains

Answer: C



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212. Read the following statements regarding spleen and select the correct option.

(i) Spleen is a large oval-shaped organ which mainly contains lymphocytes and phagocytes.

(ii) Spleen is a large reservoir of erythrocytes.

(iii) Spleen is a primary lymphoid organ.

(iv) spleen acts as a filter of the blood by trapping blood-borne microorganisms.

A. (i) and (ii)

B. (ii) and (iv)

C. (i), (ii) and (iii)

D. (i),(ii)and (iv)

Answer: D



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213. Which of the following statements regarding different barriers of innate immunity is not correct ?

A. Acid present in the stomach, saliva in the mouth, tears from the eye prevent the growth of micro-organism and constitute physiological barriers of our body.

B. Mucous membrane lining the respiratory, gastrointestinal and

urinogenital tracts helps in trapping the microbes and constitute physiological barriers of our body.

C. Certain types of leucocytes such as polymorphonuclear leucocytes (PMNL-neutrophils) and lymphocytes such as natural killer cells, constitute cellular barriers of our body.

D. Virus-infected cells secrete proteins called interferons which protect non-

infected cells from further viral infection and constitute cytokine barriers of our body.

Answer: B



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214. Read the following statements and select the correct ones.

(i) Vaccine is a preparation (or suspension) of a dead/attenuated pathogen of a disease

which on inoculation (or injection) into a healthy person, provides temporary/permanent active immunity by inducing antibodies formation.

(ii) Immunisation is the process by which the body produces antibodies against the vaccine preventable diseases through administration of specific vaccines.

(iii) The principle of immunisation or vaccination is based on the property of 'memory' of the immune system.

iv) If a person is infected with some deadly microbes to which quick immune response is

required; in that case, we need to directly inject the performed antibodies or antitoxins e.g., in case of tetanus.

A. (i) and (ii)

B. (iii) and (iv)

C. (i),(ii) and (iii)

D. (i),(ii),(iii) and (iv)

Answer: D



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215. The figure given below shows mode of action of AIDS virus. Identify steps A, B, C, D and E labelled in it.



A. A-new viral DNA, B-viral RNA introduced into cell, C-viral DNA incorporated into host genome, D-viral DNA, E-new viruses produced.

B. A-viral DNA incorporated into host genome, B-viral DNA, C-new viral RNA, D-

viral RNA introduced, E-new viruses produced.

C. A-viral RNA introduced, B-viral DNA, C-viral DNA incorporated into host genome, D-new viral RNA, E-new viruses produced.

D. A-incorporated into host genome, D-new viral DNA, E-new viruses produced

Answer: C



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216. Identify A, B, C, D and E in the below diagram of HIV virus.



A. A-RNA, B-Reverse transcriptase, C-Capsule protein coat, D-Lipid membrane, E-Envelope protein coat

B. A-RNA, B-Reverse transcriptase, C-Lipid membrane, D-Envelope protein coat, E-Capsule protein coat

C. A-Reverse transcriptase, B-Lipid

membrane, C-RNA, B-Capsule protein coat,

E-Envelope protein coat

D. A-RNA, B-Reverse transcriptase, C-

Envelope protein coat, D-Lipid

membrane, E-Capsule protein coat

Answer: A



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217. Which one of the following is a mismatched pair of the drug and its effect ?

A. Amphetamines - ChS stimulants

B. Lysergic acid - Psychedelic diethylamide
(LSD) (hallucinogen)

C. Heroin - Depressant, slows down body

D. Barbiturates - Tranquillizer

Answer: D



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218. Following are some statements regarding the primary and secondary antibody response in humans. All the statements are correct except

A. Lag period (time between the introduction of antigen and appearance of antibodies in blood) in primary response is longer than that in secondary response.

B. Predominant isotype produced in primary response is IgM while that in secondary response is IgG.

C. Primary antibodies have a higher affinity for antigen as compared to secondary antibodies.

D. Primary immune response is more quicker and intense than secondary immune response.

Answer: D



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219. Read the following four statements (A_D).

(A) Rhino virus infect the nose and respiratory passage but not the lungs.

(B) The lips and finger nails may turn grey to bluish in colour in severe cases of pneumonia.

(C) *Streptococcus pneumoniae* infects the alveoli of the lungs.

(D) Intestinal perforation and death may occur in sever cases of typhoid.

how many of the above statements are correct
?

A. One

B. Two

C. Three

D. Four

Answer: D



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220. Here some terms and their explanation are given. How many are incorrect ?

(a) AIDS: Acquired immuno deficiency syndrome

(b) HIV: Human immuno deficiency virus

(c) ELISA: Enzyme linked inductive steps assemble

(d) NGOs: Non-governmental organisation

(e) MALT: Mucosal associated lymphoid tissue

(f) LSD: Lysergic Acid diacetylmorphine

(g) NACO: National AIDS control Organisation

A. Two

B. One

C. Four

D. Three

Answer: A



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221. Assertion: Live attenuated vaccine is better in terms of immunity provided to the recipient.

Reason: As secondary lymphoid organs, example peyer's patches, are stimulated to protect the society.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (20).

C. If Assertion is true but Reason is false,
then mark (3).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: A



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222. Assertion: Asthma patients must never be exposed to dust.

Reason: Allergic response may cause vasoconstriction and death.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (20).

C. If Assertion is true but Reason is false,
then mark (3).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: D



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223. Assertion: Colosturm is a very efficient means of transferring immunity to a newborn.

Reason: IgM from mother's milk protects the

baby from the respiratory infection usually affecting in young age.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (20).

C. If Assertion is true but Reason is false,
then mark (3).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: C



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224. Assertion: Vaccine against AIDS has not been made in spite of repeated attempts.

Reason: HIV has the ability to get mutated to from several subtypes.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (0).

C. If Assertion is true but Reason is false,
then mark (3).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: A



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225. Assertion: Antibiotics such as penicillin
can be used to treat common cold.

Reason: Penicillin causes lysis of viral cells.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (0).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: D



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226. Assertion : SCID is a primary immunodeficiency.

Reason : It is a serious congenital immunodeficiency.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (0).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: A



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227. Assertion: AIDS spreads by contact between the blood of an infected person and a healthy person.

Reason: AIDS manifests as tumors or as pathogenic infections.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (0).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: B



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228. Assertion: Syphilis spreads by sexual intercourse with infected persons.

Reason: Syphilis is caused by Spirochaete bacterium, *Treponema pallidum*.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (3).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: B



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229. Assertion: All type of cancer result in tumors.

Reason: Cancer is easily treatable with antibiotics.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (0).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: D



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230. Assertion Mother can pass on syphilis bacteria to their developing foetus.

Reason Placenta can become permeable to some pathogens.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (0).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: A



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231. Assertion: UV - rays are carcinogenic in future.

Reason: UV - rays rupturek DNA strands and induce mutations to cause cancers.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (0).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: A



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232. Assertion: Metastatic cancers are more serious than benign tumors.

Reason: These spread from an organ to other body organs and there is increased interference with metabolic functions.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (0).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: A



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233. Assertion: Alcohol is called a stimulant.

Reason: Alcohol is immediately oxidised to produce large amount of energy which increases the activities of CNS.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (3).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: D



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234. Assertion: Sedatives are used in sleeping pills.

Reason: Sedatives contain opiates which reduce tension and anxiety.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2)

C. If Assertion is true but Reason is false, then mark (3).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: C



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235. Assertion: Heroin addicts have more chances of occurrence of AIDS, hepatitis, etc.

Reason: Heroin is the most dangerous and addictive opiate.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (0).

D. If both Assertion and Reason are false.

Then mark (4).

Answer: A



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236. The Widal test is performed for

A. If both Assertion and Reason are true

and the reason is the correct

explanation of the assertion, then mark
(1).

B. If both Assertion and Reason are true but
the reason is not the correct explanation
of the assertion, then mark (2).

C. If Assertion is true but Reason is false,
then mark (3).

D. If both Assertion and Reason are false.
Then mark (4).

Answer: A



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Archives

1. Increased asthmatic attacks in certain seasons are related to

- A. Low temperature
- B. Hot and humid environment
- C. Eating fruits preserved in tin containers
- D. Inhalation of seasonal pollen

Answer: D



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2. Ultrasound of how much frequency is beamed into human body for sonography ?

A. 45 – 70 MHz

B. 30 – 45 MHz

C. 15 – 30 MHz

D. 1 – 15 MHz

Answer: A



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3. If you suspect major deficiency of antibodies in a person, to which of the following would you look for confirmatory evidence?

- A. Haemocytes
- B. Serum albumins
- C. Serum globulins
- D. Fibrinogen in the plasma

Answer: C



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4. Which one of the following is the correct statement regarding the particular psychotropic drug specified?

A. Opium stimulates nervous system and causes hallucinations.

B. Morphine leads to delusions and disturbed emotions.

C. Barbiturates cause relaxation and temporary euphoria.

D. Harshish causes after thought perceptions and hallucinations.

Answer: C



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5. Consider the following statements about biomedical technologies,

(i) During open heart surgery blood is

circulated in the heart-lung machine

(ii) Blockage in coronary arteries is removed by angiography

(iii) Computerised Axial Tomography (CAT) shows detailed internal structure as seen in a section of body.

(iv) X-ray provides clear and detailed images of organs like prostate glands and lungs

Which two of the above statements are correct?

A. (i) and (iii)

B. (ii) and (ii)

C. (ii) and (iv)

D. (iii) and (iv)

Answer: A



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6. To which type of barriers under innate immunity, do the saliva in the mouth and the tears from the eyes, belong?

A. Physiological barriers

B. Physical barriers

C. Cytokine barriers

D. Cellular barriers

Answer: A



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7. Adult worms of *Wuchereria* are found in human

A. Headache

B. Lymph nodes

C. Eye

D. Gonads

Answer: B



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8. Use of anti-histamines and steroids give a quick relief from

A. Headache

B. Allergy

C. Nausea

D. Conads

Answer: B



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9. Which one of the following statement is correct ?

- A. Malignant tumours may exhibit metastasis
- B. Patients who have undergone surgery are given cannabinoids to relieve pain.
- C. Benign tumours show the property of metastasis
- D. Heroin accelerates body functions.

Answer: A



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10. Which of the following phenomena leads to variation in DNA ?

A. Thymus

B. Thyroid

C. Thalamus

D. Tonsil

Answer: A



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11. Which of the following is wheat fruit?

A. Typhoid, Tuberculosis

B. Ringworm, AIDS

C. Common Cold, AIDS

D. Dysentery, Common Cold

Answer: C



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12. A person likely to develop tetanus is immunised by administering

- A. Weakened germs
- B. Dead germs
- C. Preformed antibodies
- D. Wide spectrum antibiotics

Answer: A



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13. Which one of the following statements is correct with respect to AIDS?

A. The HIV can be transmitted through eating food together with an infected person

B. Durg addicts are least susceptible to HIV infection

C. AIDS patients are being fully cured cent per cent with prope care and nutrition

D. The causative HIV retrovirus enters helper T-lymphocytes thus reducing their numbers

Answer: D



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14. Select the correct statement from the ones given below.

- A. Barbiturates when given to criminals make them tell the truth
- B. Morphine is often given to persons who have undergone surgery as a pain killer
- C. Chewing tobacco lowers blood pressure and heart rate
- D. Cocaine is given to patients after surgery as it stimulates recovery

Answer: B



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15. A certain patient is suspected to be suffering from Acquired Immuno Deficiency Syndrome Which diagnostic technique will you recommend for its detection?

A. WIDAL

B. ELISA

C. MRI

D. Ultra Sound

Answer: B



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16. Which one of the following acts as a physiological barrier to the entry of microorganisms in human body?

A. Skin

B. Spithelium of Urogenital tract

C. Tears

D. Monocytes

Answer: A



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17. Which one of the following is categorised as a parasite in true sense ?

A. The cuckoo (koel) lays its eggs in crow's nest

B. The female anopheles bites and sucks blood from humans

C. Human foetus developing inside the uterus draws nourishment from the

mother

D. Head louse living on the human scalp as well as laying eggs on human hair

Answer: D



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18. At which stage of HIV infection does one usually show symptoms of AIDS?

- A. Within 15 days of sexual contact with an infected person
- B. When the infection retrovirus enters host cells
- C. When viral DNA is produced by reverse transcriptase
- D. When HIV replicates rapidly in helper T-lymphocytes damages large number of these

Answer: D



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19. Where will you look for the sporozoites of malarial parasite ?

A. Salivary glands of freshly moulted female

Anopheles mosquito

B. Saliva of infected female Anopheles

mosquito

C. red blood corpuscles of humans

suffering from malaria

D. Sleen of infected humans

Answer: B



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20. Which one of the following is not a property of cancerous cells whereas the remaining three are?

A. They do not remain confined in the area of formation.

B. They show non-contact inhibition.

C. They show contact inhibition.

D. They compete with normal cells for vital nutrients.

Answer: C



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21. Common cold differs from pneumonia in, that

A. Pneumonia can be prevented by a live attenuated bacterial vaccine whereas common cold has no effective vaccine.

B. Pneumonia is caused by a virus while common cold is caused by bacterium *Haemophilus influenzae*.

C. Pneumonia pathogen infects alveoli whereas common cold affects nose and respiratory passage but not the lungs.

D. Pneumonia is a communicable disease
whereas common cold is a nutritional
deficiency disease.

Answer: C



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22. Widal Test is carried out to test :

A. Diabetes mellitus

B. HIV/AIDS

C. Typhoid fever

D. Malaria

Answer: C



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23. A patient brought to a hospital with myocardial infarction is normally immediately given

A. Streptokinase

B. Cyclosporin-A

C. Statins

D. Penicillin

Answer: A



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24. Cirrhosis of liver is caused by the chronic intake of

A. Tobacco (Chewing)

B. Cocaine

C. Opium

D. Alcohol

Answer: D



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25. Motile zygote of Plasmodium occurs in

A. Human RBCs

B. Human liver

C. Gut of female Anopheles

D. Salivary glands of Anopheles

Answer: C



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26. Read the following four statements (A - D)

(1) Colostrum is recommended for the new born because it is rich in antigens

(2) Chikungunya is caused by a Gram negative bacterium

(3) Tissue culture has proved useful in obtaining virus free plants

Beer is manufactured by distillation of fermented grape juice

How many of the above statements are wrong?

A. Two

B. Three

C. Four

D. One

Answer: A



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27. Which one of the following statement is correct with respect to immunity

A. Performed antibodies need to be injected to treat the bite by a viper snake.

B. The antibodies against smallpox pathogen are produced by T-lymphocytes.

C. Antibodies are protein molecules, each of which has for light chains.

D. Rejection of a kidney graft is the function of B-lymphocytes.

Answer: A



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28. Which of the following abnormalities is due to X-linked recessive mutation ?

A. Sex of the fetus

B. Down syndrome

C. Jaundice

D. Klinefelter syndrome

Answer: C



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29. The cell-mediated immunity inside the human body is carried out by

A. B-lymphocytes

B. Thrombocytes

C. Erythrocytes

D. T-lymphocytes

Answer: D



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30. Infection of Ascaris usually occurs by

A. drinking water containing eggs of

Ascarise

B. eating imperfectly cooked pork

C. Tse-tse fly

D. mosquito bite

Answer: A



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31. At which stage of HIV infection does one usually show symptoms of AIDS?

A. Within 15 days of sexual contact with an infected person.

B. When the infected retrovirus enters host cells.

C. When HIV damages large number of helper T-Lymphocytes.

D. When the viral DNA is produced by reverse transcriptase.

Answer: C



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32. Which is the particular type of drug that is obtained from the plant whose one flowering branch is shown below?



A. Hallucinogen

B. Depressant

C. Stimulant

D. Pain-Killer

Answer: A



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33. Which of the following endoparasites of humans does show viviparity ?

A. *Ascaris lumbricoides*

B. *Ancylostoma duodenale*

C. *Enterobius vermicularis*

D. *Trichinella spiralis*

Answer: D



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34. Which of the following pairs is not correctly matched

- | | |
|--------------------|------------------------|
| (a) tuberculosis | (i) harmless virus |
| (b) whooping cough | (ii) inactivated toxin |
| (c) diphtheria | (iii) killed bacteria |
| (d) polio | (iv) harmless bacteria |

- A. (a) (b) (c) (d)
(i) (ii) (iv) (iii)
- B. (a) (b) (c) (d)
(ii) (i) (iii) (iv)
- C. (a) (b) (c) (d)
(iii) (ii) (iv) (i)
- D. (a) (b) (c) (d)
(iv) (iii) (ii) (i)

Answer: D



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35. Which of the following viruses is not transferred through semen of an infected male?

A. Ebola virus

B. Hepatitis B virus

C. Human immunodeficiency virus

D. Chikungunya virus

Answer: D



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36. The active form of *Entamoeba histolytica* feeds upon

A. blood only

B. erythrocytes, mucosa and submucosa of colon

C. mucosa and submucosa of colon only

D. food in intestine

Answer: B



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37. HIV that causes AIDS, first starts destroying

A. Thrombocytes

B. B-Lymphocytes

C. Leucocytes

D. Helper T-Lymphocytes

Answer: D



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38. Which of the following is not a sexually transmitted disease?

A. Encephalitis

B. Syphilis

C. Acquired Immuno Deficiency Syndrome
(AIDS)

D. Trichomoniasis

Answer: A



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39. Which of the following immunoglobulins does constitute the largest percentage in human milk?

A. IgG

B. IgG

C. IgM

D. IgA

Answer: D



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40. Grafted kidney may be rejected in a patient due to

- A. Innate immune response
- B. Humoral immune response
- C. Cell-mediated immune response
- D. Passive immune response

Answer: C



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41. Which of the following abnormalities is due to autosomal dominant mutation ?

A. Blastomycosis

B. Syphilis

C. Influenza

D. Babesiosis

Answer: A



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42. Fruit flies are one of the best materials for genetic studies because of all , except

- A. Melatonin and Serotonin
- B. Thyroxine and Triiodothyronine
- C. Estrogen and Progesterone
- D. Cortisol and Cortisone

Answer: A



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43. In higher vertebrates, the immune system can distinguish self- cells and non-self. If this property is lost due to genetic abnormality and it attacks self-cells, then it leads to

- A. Allergic response
- B. Graft rejection
- C. Auto-immune disease
- D. Active immunity

Answer: C



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44. Antivenom injection contains preformed antibodies while polio drops that are administered into the body contain

- A. Activated pathogens
- B. Harvested antibodies
- C. Gamma globulin
- D. Attenuated pathogens

Answer: D





45. Which kind of therapy was given in 1990 to a four-year-old girl with adenosine deaminase (ADA) deficiency?

- A. Immunotherapy
- B. Radiation therapy
- C. Gene therapy
- D. Chemotherapy

Answer: C

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46. Which of the following is wheat fruit?

- A. Tetanus and mumps
- B. Herpes and influenza
- C. Cholera and tetanus
- D. Typhoid and smallpox

Answer: C

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