



BIOLOGY

BOOKS - S DINESH & CO BIOLOGY (HINGLISH)

HUMAN HEALTH AND DISEASE

Multiple Choice Questions

1. Health is

- A. Complete physical well being
- B. Mental well being
- C. Social well being
- D. All the above

Answer: D





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2. Which is not a biological agent of disease ?

- A. Fungi
- B. Mycoplasma
- C. Pollen
- D. Bacteria

Answer: C



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3. An endogenous chemical agent of disease is

- A. Uric acid
- B. Protein deficiency
- C. Vitamin deficiency

D. Pollutions

Answer: A



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4. A biological agent of the disease is

A. Vitamin deficiency

B. Virus

C. Spores

D. Carbohydrate deficiency

Answer: B



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5. Dislocation is a disease caused by

A. Biological agent

B. Mechanical agent

C. Physical agent

D. Chemical agent

Answer: B



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6. Heart disease is a

A. Infectious disease

B. Communicable disease

C. Degeneration disease

D. Deficiency disease

Answer: C



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7. Haemophilia is a

- A. Genetic disorder
- B. Infectious disease
- C. Degeneration disease
- D. Deficiency disease

Answer: A



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8. A congenital disease is

- A. kalaazar
- B. Measles
- C. Meningitis

D. Sickle cell anaemia

Answer: D



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9. Koch's postulates are not applicable for:

A. Viruses

B. Fungi

C. Protozoans

D. Spirochaetes

Answer: A



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10. Koch's postulates are about

A. Nutrition related diseases

B. pathogen related diseases

C. Genetic disorders

D. Degeneration diseases

Answer: B



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11. A reservoir of infection is the one in which

A. Large scale infection occurs

B. The pathogen resides without producing disease

C. The pathogen passes its sexual phase

D. The pathogen passes its asexual phase

Answer: B



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12. A carrier is a human being that

- A. Functions as a reservoir of infection
- B. Possesses pathogen but is not harmed
- C. Contains antibodies sufficient enough to balance the antigen
- D. All the above

Answer: D



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13. Droplet infection is a mode of

- A. Direct transmission
- B. Indirect transmission
- C. Pathogen spread through mosquitoes

D. Fomite transmission

Answer: A



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14. The reservoir of rabies is

A. Rabid dogs

B. Foxes, wolves, and rabid dogs

C. Dogs, foxes, wolves, jackals, mongooses, bats, cats, skunks, and coyotes

D. Rabid dogs and cats

Answer: C



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15. A communicable disease, which if not controlled immediately is 100% fatal

- A. Syphilis
- B. kala-azar
- C. Filariasis
- D. Hydrophobia

Answer: D



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16. Rabies/Hydrophobia is caused by a

- A. Fungus
- B. Virus
- C. Bacterium

D. Protozoan

Answer: B



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17. A disease spread through contact with soil is

A. Tetanus

B. Rabies

C. Syphilis

D. Gonorrhoea

Answer: A



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18. A disease spread directly by animal bites is

A. Syphilis

B. Scarlet fever

C. Rabies

D. Malaria

Answer: C



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19. A disease spread indirectly through a vector is

A. Sleeping sickness

B. Malaria

C. kala-azar

D. All the above

Answer: D



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20. A fomite method of transmission of disease is through

- A. Food
- B. Door handles
- C. Mosquitoes
- D. Soil

Answer: A



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21. Which of the following is a bacterial disease ?

- A. Measles
- B. Chicken pox
- C. Rabies

D. Tuberculosis

Answer: D



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22. The disease caused by a bacterium is

A. Amoebiasis

B. Arthritis

C. Diabetes

D. Diphtheria

Answer: D



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23. Bacterium which causes diphtheria belongs to

A. Bacillus

B. Corynebacterium

C. Diplococcus

D. Vibrio

Answer: B



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24. Bacterium which causes tuberculosis belongs to

A. Mycobacterium

B. Corynebacterium

C. Treponema

D. Clostridium

Answer: A



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25. Leprosy is due to a

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

Answer: A



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26. 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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27. A venereal or sexually transmitted disease is

A. Diphtheria

B. Leprosy

C. Syphilis

D. Tetanus

Answer: C



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28. ATS inoculation soon after injury bringing contact with soiled objects gives protection against the possible attack of

- A. Tetanus
- B. Typhoid
- C. Poliomyelitis
- D. Mumps

Answer: A



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29. A bacterial disease produced by droplet infection is

- A. Cholera
- B. Bacterial diarrhoea
- C. Leprosy

D. Tuberculosis

Answer: D



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30. Which of the following is not spread by droplet method?

A. Tuberculosis

B. Diphtheria

C. Pertussis

D. Gonorrhoea

Answer: D



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31. Gonorrhoea is a

- A. Viral disease
- B. Protozoan disease
- C. Sexually transmitted disease
- D. A disease that impairs vision

Answer: C

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32. Tuberculosis is quite common among

- A. Undernourished people
- B. People living in dingy urban localities
- C. People living in isolated villages
- D. Both A and B

Answer: D

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33. BCG vaccine provides protection from:

- A. Mumps
- B. Tuberculosis
- C. Poliomyelitis
- D. Tetanus

Answer: B



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34. First DPT dose be given when the baby is

- A. Six weeks old
- B. Fourteen weeks old
- C. Nine months old

D. 2-5 years old

Answer: A



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35. DPT vaccine is given for

- A. Diphtheria , Polio and Tuberculosis
- B. Diphtheria, pertussis and tetanus
- C. Diarrhoeal disease , pertussis and tetanus
- D. Diphtheria, poliomyelitis and tetanus

Answer: D



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36. A disease characterised by oozing of semisolid material in throat forming a tough membrane is

- A. Whooping cough
- B. Diphtheria
- C. Pulmonary tuberculosis
- D. Measles

Answer: B



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37. Disease occurring in the form of sudden attack of loud crowing inspiration in children is

- A. Whooping cough
- B. Diphtheria
- C. Tuberculosis

D. Pneumonia

Answer: A



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38. Which is a water-borne disease

A. Cholera

B. Syphilis

C. Gonorrhoea

D. Filaria

Answer: A



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39. Rehydration therapy is a must for

A. Diarrhoea

B. Cholera

C. Both A and B

D. Diarrhoea, cholera and dysentery

Answer: C



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40. A disease against which vaccination is resorted only during epidemics

A. Diarrhoeal disease

B. Tetanus

C. Cholera

D. Taeniasis

Answer: C



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41. Micro-organisms commonly causing diarrhoeal diseases are

- A. Escherichia coli, Shigella species , Campylobacter and Bacillus pertussis
- B. Clostridium tetani, Giardia, Entamoeba
- C. Escherichia coli, Giardia, Shigella, Campylobacter and Salmonella
- D. Neisseria, Treponema, Escherichia, Giardia , Shigella, Campylobacter and Salmonella.

Answer: C

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42. 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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43. A disease with social stigma is

A. Chicken pox

B. Measles

C. Trachoma

D. Leprosy

Answer: D



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44. A disease contracted through wounds, accidents and improperly sterilised surgical instruments is

- A. Tetanus
- B. Gonorrhoea
- C. Mumps
- D. Amoebiasis

Answer: A



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45. A disease caused by corkscrew like bacterium is

- A. Gonorrhoea
- B. Syphilis
- C. Salmonellosis

D. Whooping cough

Answer: B



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46. A disease characterised by burning sensation during urination and pain around genitalia is

A. Syphilis

B. Gonorrhoea

C. Trachoma

D. Mumps

Answer: D



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47. a Disease producing painless indurated ulcer on the genitals with swelling of local lymph gland is

- A. Leprosy
- B. Gout
- C. Syphilis
- D. Gonorrhoea

Answer: C



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48. Mumps disease is caused by

- A. Protozoan
- B. Virus
- C. Bacterium

D. Fungus

Answer: B



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49. A viral disease causing painful swelling of parotid gland is

A. Mumps

B. Measles

C. Chicken pox

D. Rabbits

Answer: A



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50. The disease that may cause sterility due to infection spreading to sex organs is

- A. Measles
- B. Syphilis
- C. Gonorrhoea
- D. Mumps

Answer: D



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51. A viral disease against which vaccine is not available

- A. Measles
- B. mumps
- C. poliomyelitis

D. chicken pox

Answer: D



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52. A disease characterised by eruption of small red spots and inflammation of nasal mucous membrane is

A. chickenpox

B. Measles

C. Mumps

D. diphtheria

Answer: B



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53. A disease showing dew drop like pinkish eruption later turning into scabs which do not leave any pox marks is

- A. Measles
- B. smallpox
- C. mumps
- D. chickenpox

Answer: D



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54. A disease caused by one of the smallest virus is:

- A. mumps
- B. Measles
- C. Poliomyelitis

D. trachoma

Answer: C



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

A. Poliomyelitis

B. malaria

C. Filariasis

D. arthritis

Answer: A



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56. Malarial parasite can be obtained in RBCs of patient

- A. during fever
- B. before temperature rise
- C. after temperature becomes normal
- D. all of above

Answer: A

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57. Mild tertian malaria is caused by

- A. plasmodium virax
- B. p. malarie
- C. p.ovale
- D. p.falciparum

Answer: C

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58. Cerebral malaria is caused by Plasmodium:

A. plasmodium virax

B. p. malarie

C. p.ovale

D. p.falciparum

Answer: D



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59. Malignant tertian malarial is caused by

A. plasmodium virax

B. p. malarie

C. p.ovale

D. p.falciparum

Answer: D



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60. Entamoeba histolytica causes:

A. chicken pox

B. tetanus

C. dysentery

D. elephantiasis

Answer: C



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61. Entamoeba histolytica infection occurs through:

- A. insect bite
- B. bird dropping
- C. sweat
- D. food or water contained with cysts

Answer: B

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62. *Entamoeba histolytica* is a human parasite usually found in

- A. rectum
- B. intestine
- C. stomach
- D. oral cavity

Answer: D

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63. In amoebiasis, which of the following conditions occurs

- A. mild diarrhoea alternating with constipation
- B. mucus in stool
- C. passing of blood in stool
- D. all of above

Answer: D



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64. Tapeworm infection occurs amongst vegetarians through

- A. improper cooked measy pork
- B. improperly washed raw vegetables
- C. soil

D. contamination of water

Answer: B



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65. Tapeworm occurs in

A. rectum

B. stomach

C. intestine

D. liver

Answer: C



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66. *Taenia solium* attaches it self to the intestinal wall by means of scolex through its

- A. strobila
- B. hooks and suckers present on scolex
- C. rostellum alone
- D. suckers alone

Answer: B



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67. Tapeworm infection results in

- A. indigestion
- B. abdominal pain
- C. anorexia

D. all of above

Answer: D



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68. The common tapeworm infecting human being is

A. *taenia solium*

B. *taenia saginata*

C. *diphyllobothrium latum*

D. *t. echinococcus*

Answer: A



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69. Common roundworm infecting human beings is

- A. ascaris lumbricoides
- B. enterbius vermicularis
- C. anksylostoma duodenale
- D. wuchereria bancrofti

Answer: A

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70. Roundworm infection can be detected by

- A. stool test
- B. dermal test
- C. scratch test
- D. all of above

Answer: D

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71. Roundworm infection produces

- A. vague symptoms of nausea ,abnominal pain and caught
- B. clear symptoms of abnominal pain and abdominal obstruction
- C. anaemia and weakness even in light infection
- D. pneumonia and peritonitis in all cases.

Answer: A



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72. Helmintic diseases are transmitted through

- A. food
- B. dirty hands
- C. contaminated oil

D. all of above

Answer: D



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73. Elephantiasis (Filariasis) in man is caused by

A. wuchereria bancrofti

B. tse-tse fly

C. sand fly

D. all of above

Answer: A



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74. Filariasis is also called elephantiasis because

- A. infection from elephant
- B. elephants are secondary hosts
- C. excessive enlargement of body parts like legs
- D. excessive enlargement of teeth

Answer: C



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75. A localised tumour covered by connective tissue is called

- A. metastasis
- B. malignant tumour
- C. benign tumour
- D. neoplasm

Answer: C



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76. 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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77. Cancerous cells spread through

- A. Blood
- B. Lymph

C. Secondary growths of malignant tumour

D. All the above

Answer: D



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78. Lung cancer is a

A. Carcinoma

B. Sarcoma

C. Malignant lymphoma

D. Sarcoma is a malignancy of

Answer: A



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79. Sarcoma is cancer of

- A. Epithelia (ectodermal) tissues.
- B. Blood
- C. Mesoderm
- D. Reticuloendothelial tissues

Answer: C



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80. Bone cancer belongs to the category of

- A. Carcinoma
- B. Sarcoma
- C. Malignant lymphoma
- D. Leukaemia

Answer: B



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81. In leukaemia there is tremendous increase in the numbers of

- A. Red blood corpuscles
- B. Immature cells
- C. White blood corpuscles
- D. Both white blood cells and immature cells.

Answer: D



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82. The genes which on activation produce malignant neoplasm are

- A. Pleiotropic genes

B. Multiple genes

C. Oncogenes

D. Neonatal genes

Answer: C



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83. Breast cancer is an example of:

A. A sarcoma

B. Carcinoma

C. Communicable

D. Contagious

Answer: B



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84. The major form of cancer in Indian women is

- A. Breast cancer
- B. Throat cancer
- C. Throat and mouth cancer
- D. Uterine-cervical cancer

Answer: C



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85. The major form of cancer in Indian men is

- A. Lung cancer
- B. Mouth and throat cancer
- C. Stomach cancer
- D. Bone cancer

Answer: B



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86. A cancer causing agent is known as:

- A. Oncogene
- B. Carcinoma
- C. Carcinogen
- D. Metastasis

Answer: C



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87. Carcinogen present in coal tar is

- A. Nitrosodimethylene

B. 3,4-benzpyrene

C. 2-naphthylamine

D. 4-amino biphenyl

Answer: B



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88. Which of the following causes lung cancer?

A. Liver

B. Lungs

C. Lungs and pleural membrane

D. Urinary bladder

Answer: C



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89. Cigarette smoke contains the carcinogen

- A. N-nitrosodimethylene
- B. Aflatoxin
- C. Vinyl chloride
- D. Diethylstilbestrol

Answer: A



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90. The common weed *Catharanthus roseus* (= *Vinca rosea*) is source of

- A. Hay fever
- B. Two carcinogens-vincristin and vinblastin
- C. Two anticancer drugs-vincristin and vinblastin
- D. Skin rashes

Answer: C



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91. Who discovered vaccination against small pox?

A. Edward Jenner (1796)

B. Robert Koch (1876)

C. Louis Pasteur (1879)

D. Von Behring (1891)

Answer: A



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92. The technique of preparing vaccine form attenuated pathogen was discovered by

A. Edward Jenner (1796)

B. Robert Koch (1876)

C. Louis Pasteur (1879)

D. Von Behring (1891)

Answer: C



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93. The term vaccine was introduced by

A. Jenner

B. Koch

C. pasteur

D. Jointly by koch and Pasteur

Answer: A



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94. Edward Jenner prepared the vaccine for smallpox virus by using:

- A. Attenuated pathogen of small pox
- B. Smaller doses of small pox virus
- C. Attenuated form of cow pox virus
- D. Material form cow pox virus

Answer: D



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95. A substance (low molecular weight protein) produced by host cells in response to viral infection and protect other cells against further viral infection is

- A. Antibody
- B. Antigen

C. Phytotoxin

D. Hormone

Answer: A



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96. An antigen is:

A. A foreign molecules

B. A protein

C. A polysaccharide

D. A microorganism

Answer: A



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97. The antigen present in pathogen is

- A. A specific protein involved in metabolism
- B. Polysaccharide synthesised by it in the host
- C. A specific protein or polysaccharide present on its coat
- D. Any of the two A or B

Answer: C



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98. The cells that actually release the antibodies are

- A. Helper T-cells
- B. Cytotoxic T-cells
- C. Plasma cells
- D. Memory cells

Answer: C



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99. A person without thymus would not be able to

- A. Reject a tissue transplant
- B. Receive a tissue transplant
- C. Develop an inflammatory response
- D. Produce antibodies

Answer: A



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100. Life of the effector cells of immune system is

- A. A few weeks to several years

B. A few days

C. A few years

D. A few months to whole life

Answer: D



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101. Life of the memory cells of immune system is

A. A few days

B. A few weeks

C. A few hours

D. A few months to whole life

Answer: D



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102. Type of T-cell are

- A. Killer cells and helper cells
- B. Killer cells and suppressor cells
- C. Killer , helper and suppressor
- D. killer, helper and derepressor cells

Answer: C



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103. Anaphylactic shock is

- A. Mild local reaction to an allergen
- B. severe local reaction
- C. Mild general reaction to an allergen
- D. Severe reaction of the whole body

Answer: D



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104. 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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105. Passive immunity is provided through

- A. Exogenous supply of antigens

- B. Exogenous supply of antibody
- C. Endogenous supply of antigens
- D. Endogenous supply of antibodies

Answer: B



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106. Opsonisation is carried out by

- A. IgM
- B. IgG
- C. IgA
- D. IgD and IgE

Answer: B



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107. Lysis of foreign cell is initiated by antibodies of:

- A. IgM and IgG
- B. IgG and IgA
- C. IgA and IgD
- D. IgG and IgE

Answer: A



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108. T-cell have a life of

- A. 4-5 days
- B. 4-5 weeks
- C. 4-5 months
- D. 4-5 years

Answer: D



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109. The method of passive immunity was discovered by

- A. Pasteur
- B. Von Behring
- C. Koch
- D. Jenner

Answer: B



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110. The most modern technique of vaccine preparation is

- A. Extraction of antigens from pathogens

- B. Multiplication of antigens through rDNA
- C. Weakening of pathogen through chemical treatment
- D. Attenuation of pathogen through heat

Answer: B



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111. Interferon

- A. Activates virus
- B. Inactivates a virus
- C. Protects unattacked cells from virus
- D. Prevents viruses from taking over the cellular machinery

Answer: B



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112. AIDS was first reported in U.S.A in

- A. 1981
- B. 1971
- C. 1984
- D. 1986

Answer: A



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113. B-cells produce antibodies in response to instruction received from

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

Answer: D



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114. Interferon suppresses the pathogenic activity of

- A. Bacteria
- B. Viruses
- C. Protozoans
- D. Helminths

Answer: B



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115. The cells involved in defence against against pathogens are

- A. Phagocytes

B. T-lymphocytes

C. B-Lymphocytes

D. All the above

Answer: D



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116. AIDS virus found in India is

A. HIV -I

B. HIV-2

C. HIV-3

D. HIV-4

Answer: A



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117. AIDS is

- A. Contagious
- B. Infectious
- C. Noncontagious
- D. Both B and C

Answer: D



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118. Approximate number of AIDS patients worldwide is

- A. 2 million
- B. 30 million
- C. 200 million
- D. 300 million

Answer: B



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119. Number of AIDS patients believed to be present in India is currently

- A. 20000
- B. 2,00,000
- C. 20,00,000
- D. 30,00,000

Answer: D



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120. Which of the following properties of acquired immunity is the basis of vaccination?

A. Specificity

B. Diversity

C. Memory

D. Discrimination between self and nonself

Answer: C



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121. HIV attacks

A. B-Cells

B. T-cells

C. Antigen presenting cells

D. T-helper cells

Answer: D



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122. Anatomical barrier to disease is

- A. Skin
- B. Mucous membrane
- C. Mucus and cilia
- D. All the above

Answer: D



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123. Lysozyme is

- A. Antiviral
- B. Antibacterial
- C. Antiprotozoan

D. All the above

Answer: B



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124. Lysozyme occurs in

A. Tears

B. Tears and saliva

C. Tears , saliva , sweat and mucus

D. Gastric juice

Answer: C



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125. Phagocytes of innate immunity are

- A. Neutrophils
- B. Macrophages
- C. Monocytes
- D. All the above

Answer: D

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126. Number of proteins belonging to complement system is

- A. 6
- B. 18
- C. 24
- D. 30

Answer: D

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127. In innate immunity , complement system functions through

- A. Alternate pathway
- B. Classical pathway
- C. Heightened pathway
- D. All the above

Answer: A



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128. Number of lymphocytes present in a healthy human is

- A. 1 trillion
- B. 100 billion
- C. 10 trillion

D. 100 trillion

Answer: A



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129. Number of antibodies produced per day during an infection can be

A. 2 trillion

B. 20 trillion

C. 200 trillion

D. 2000 trillion

Answer: B



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130. B-lymphocytes are

- A. Formed in bone marrow
- B. Preprocessed in bone marrow
- C. Preprocessed in liver
- D. Both A and B

Answer: D

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131. T-lymphocytes are

- A. Formed in thymus
- B. Formed in bone marrow and preprocessed in thymus
- C. Formed in thymus and preprocessed in bone marrow
- D. Formed and preprocessed in bone marrow

Answer: B

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132. Antigenic determinants are

- A. Large and complex molecules that are different from those of an organism/host
- B. Proteins or carbohydrates
- C. Recognisable sites over antigens
- D. Specific products of pathogen

Answer: C



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133. Antigenic determinants are recognised by

- A. Antibodies
- B. Receptors over T-cells

C. Receptors over B-Cells

D. All the above

Answer: D



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134. Adaptive/acquired immunity is found in

A. Vertebrates

B. Invertebrates

C. Plants

D. All the above

Answer: A



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135. Antibody which mediates allergic response is

A. IgA

B. IgD

C. IgE

D. IgM

Answer: C



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136. Antibodies that function in innate immunity are

A. IgM

B. IgE

C. IgA

D. IgD

Answer: C



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137. Antibodies that function in innate immunity

- A. Mass replication
- B. Clonal selection
- C. Mass selection
- D. Pure line selection

Answer: B



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138. Which one lasts longer?

- A. Primary immune response

B. Secondary immune response

C. Inflammatory response

D. Both B and C

Answer: B



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139. Primary lymphoid organs are

A. Lymphoid structures formed directly over the lymph vessels

B. Structures formed in the foetus

C. Structures where lymphocytes mature/undergo preprocessing

D. Lymphatic structures where mature lymphocytes reside

Answer: C



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140. DPT-Hib (DTP-Hib) vaccination is against

- A. Diphtheria-A , tetanus , pertussis and hepattis-B
- B. Diphteria, tetanus, pertussin and hepatitis -A
- C. Diphtheria, tetanus, Pertussis and Haemophilus influenzae-B
- D. Diphtheria, tetanus, Pertussis and Haemophilus influenzae-A

Answer: C



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141. In tissue typing for organ transplant what is matched is

- A. HLA proteins
- B. HLA alleles
- C. Human leucocyte antigens
- D. Haplotypes

Answer: C



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142. Haplotype is

- A. A single genome
- B. Major histocompatibility complex
- C. Chain of HLA alleles inherited together
- D. All the above

Answer: C



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143. Number of haplotypes present in an individual is

- A. One

B. Two

C. Six

D. Numerous

Answer: B



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144. Haplotype are identical in

A. Identical twins

B. Brothers and sisters

C. Children and parents

D. All the above

Answer: A



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145. An autoimmune disease is

- A. Rheumatoid arthritis
- B. Multiple sclerosis
- C. Insulin dependent diabetes
- D. All the above

Answer: D



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146. Multiple sclerosis is caused by attack of antibodies over

- A. Sarcolemma of muscle cells
- B. Cartilage cover
- C. Myelin sheath of nerve cells
- D. Periosteum

Answer: C

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Revision Questions From Competitive Exams

1. Passive immunity is obtained through injecting

- A. Antibiotics
- B. Vaccines
- C. Antibodies
- D. Antigens

Answer: C

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2. Infection of Ascaris occurs due to

- A. Mosquito bite
- B. Imperfectly cooked pork
- C. Tse-tse fly
- D. Contaminated food and water

Answer: D



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3. Immunity acquired after an infection is

- A. Active immunity
- B. Passive immunity
- C. Innate immunity
- D. Both B and C

Answer: A



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4. Humoral immunity is due to

- A. T-lymphocytes
- B. L-lymphocytes
- C. P-lymphocytes
- D. B-lymphocytes/Plasma cells

Answer: D



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5. Diphtheria is connected with

- A. Lungs
- B. Throat
- C. Blood

D. Liver

Answer: B



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6. A viral disease is

A. Cancer

B. Leukemia

C. Typhoid

D. Yellow fever

Answer: D



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7. Trypanosomiasis is spread by

A. Housefly

B. Sandfly

C. Tse-tse fly

D. Culex

Answer: C



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8. Paraplegia is paralysis of

A. Upper limbs

B. Lower limbs

C. One limb

D. Body

Answer: B



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9. Toxin produced by tetanus affects

- A. Voluntary muscles
- B. Involuntary muscles
- C. Both voluntary and involuntary
- D. Jaw bones

Answer: A



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10. Which is a viral disease

- A. Tetanus
- B. Dysentery
- C. Typhoid

D. None of the above

Answer: D



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11. Mumps is viral disease that causes inflammation of

A. Parotid gland

B. Sublingual gland

C. Submaxillary gland

D. Infra-orbital gland

Answer: A



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12. In polio, the legs get paralysed and atrophied due to

- A. Obstruction of muscles
- B. Degeneration of bones
- C. Death of some muscles
- D. Shrinkage of muscles.

Answer: C

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13. Chicken pox is caused by

- A. Varicella virus
- B. Adeno virus
- C. Bacteriophage T_2
- D. S.V.40 Virus.

Answer: A

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14. 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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15. Cholera is due to

- A. Protozoan
- B. Fungus
- C. Virus

D. Bacterium

Answer: D



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16. Leprosy is due to a

A. Monocystis

B. TMV

C. Mycobacterium

D. Salmonella

Answer: C



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17. Vaccines produced through genetic engineering are safe as:

- A. They contain antigen only from coat of pathogen
- B. They are least active form of virus
- C. They are attenuated form of pathogen
- D. All the above

Answer: A

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18. Both B-cells and T-cells of immune system are produced in:

- A. Spleen
- B. Lymphoid organs
- C. Bone marrow
- D. Thymus.

Answer: C

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19. Study of interaction of antigen and antibody in blood is termed:

A. Haematology

B. Serology

C. Cryobiology

D. Angiology

Answer: B



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20. Antibody formation and immunity production by globulin protein is found in:

A. Haemoglobin of RBCs

B. Blood platelets

C. Plasma

D. Cytoplasm of RBCs

Answer: C



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21. Cells involved in immune mechanism are:

A. Erythrocytes

B. Lymphocytes

C. Eosinophils

D. Thrombocytes

Answer: B



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22. Surgical removal of the thymus gland of a newborn shall result in the failure to produce:

- A. Monocytes
- B. B-lymphocytes
- C. T-lymphocytes
- D. Basophils

Answer: C



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23. A non-infectious unnatural and unusual reaction of a person to any substance or condition for which he is hypersensitive is termed as

- A. Immunity
- B. Allergy
- C. Infection

D. Toxin

Answer: B



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24. Clinical fever in malaria is due to

- A. Erythrocytic-gametogony
- B. Erthrocytic schizogony
- C. Pre-erythrocytic schizogony
- D. Exo-erythrocytic schizogony

Answer: B



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25. Which one is carrier of microfilariae ?

A. Culex

B. Aedes

C. Anopheles

D. Tabanus

Answer: A



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26. Black water fever is caused by:

A. Plasmodium vivax

B. P. Falciparum

C. P.ovale

D. P.malariae

Answer: B



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27. A disease caused by nematode parasite:

- A. Poliomyelitis
- B. Leprosy
- C. Filariasis
- D. Amoebiasis

Answer: C



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28. Shuffner's dots are related to

- A. Entamoeba histolytica
- B. Leucocytes
- C. Mosquito

D. RBCs of humans

Answer: D



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29. Congenital present at birth

- A. Something present since birth
- B. Deficiency disease
- C. Spread from one individual to another
- D. Occur during life

Answer: A



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30. Canner cells are damaged by radiations while others are not due to cancer cells

- A. Being starved
- B. Being different in nature
- C. Immature and undergoing rapid division
- D. None of the above

Answer: C



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31. Cell affected by leukemia are

- A. Plasma cells
- B. Thrombocytes
- C. Leucocytes

D. Erythrocytes

Answer: C



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32. Genes involved in cancer are

A. Cancer genes

B. Oncogenes

C. Tumour genes

D. Regulator genes

Answer: B



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33. Syphilis is caused by

A. *Treponema pallidum*

B. *Leptospira*

C. *Pasteurella*

D. *Vibrio*

Answer: A

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34. Which one is correctly matched ?

A. Oncogenes-Ageing

B. Initiation factors-Amino acid activation

C. Replication fork-m RNA

D. AIDS virus-Reverse transcription

Answer: D

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35. A cell-coded protein that is formed in response to infection with most animal viruses is called

- A. Antigen
- B. Antibody
- C. Interferon
- D. Histone

Answer: C



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36. Obstacle to large scale transplantation of organs is

- A. Insufficiency of organ donors
- B. Immunological rejection of foreign bodies

C. Religious or ethnic considerations

D. Lack of effective surgical techniques

Answer: B



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37. A water borne disease is

A. Small pox

B. Tuberculosis

C. Malaria

D. Cholera

Answer: D



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38. Causative agent of T.B. Is

- A. Salmonella
- B. Mycobacterium
- C. Streptococcus
- D. Pneumococcus

Answer: B



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39. Which one of the sexually transmitted diseases is correctly matched with its pathogen ?

- A. Urethritis-Bacillus anthracis
- B. Syphilis-Treponema pallidum
- C. Gonorrhoea-Entamoeba histolytica

D. Soft sore- Bacillus brevis

Answer: B



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40. A sexually transmitted disease caused by bacteria is

A. Leprosy

B. AIDS

C. Syphilis

D. Pertussis

Answer: C



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41. Sarcoma is the cancer of:

- A. Epithelial tissue
- B. Mesodermal tissue
- C. Blood
- D. Endodermal tissue

Answer: B

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42. Which one is the best way to eradicate malaria ?

- A. Using mosquito repellent oils
- B. Killing of Culex larvae
- C. Killing of Anopheles larvae
- D. Killing of adult Anophele

Answer: C

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43. Jaundice is disease of:

A. Kidney

B. Liver

C. Pancreas

D. Duodenum

Answer: B



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44. Suspension of attenuated pathogen that stimulates antibody formation is:

A. Antitoxin

B. Antibiotic

C. Vaccine

D. Sera

Answer: C



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45. Antiserum contains:

A. Antigen

B. Antibody

C. White blood corpuscles

D. Red blood corpuscles

Answer: B



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46. AIDS is due to:

- A. Reduction in number of helper T-cells
- B. Reduction in number of killer T-cells
- C. Autoimmunity
- D. Non production of interferons

Answer: A



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47. AIDS related complex or ARC is:

- A. Initial form of AIDS
- B. Not linked to AIDS
- C. Severe form of AIDS
- D. None of the above

Answer: A



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48. AIDS virus has

- A. Single strand DNA
- B. Double strand DNA
- C. Single Strand RNA
- D. Double strand RNA

Answer: C



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49. AIDS spreads through:

- A. Homosexuality

- B. Immoral way of life
- C. Infected blood, needles and syringes
- D. All the above

Answer: D

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50. AIDS virus enters the human body through

- A. Food
- B. Kissing
- C. Water
- D. Blood

Answer: D

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51. Antibody

- A. Induces formation of antigen
- B. Helps in production of WBC
- C. Is formed by WBC
- D. None of the above

Answer: C



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52. A compound which is produced by an organism and inhibits the growth of other organisms is called:

- A. Antigen
- B. Antibody
- C. Antibiotic

D. Antimetabolite

Answer: B



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53. A kind of allergy is

A. Asthma

B. Yellow eyes

C. Mumps

D. Thphoid

Answer: A



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54. What is introduced in polio vaccination

A. Antibodies

B. Antigen

C. Antibiotic

D. Bacteriostatic agents

Answer: A



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55. Antigens are present

A. Inside cytoplasm

B. Inside nucleus

C. On nuclear envelope

D. On cell surface

Answer: D



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56. T.B. is cured by

- A. Griseofulvin
- B. Ubiquinone
- C. Streptomycin
- D. Eucitol

Answer: C



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57. Which is not cancer

- A. Leukemia
- B. Glaucoma
- C. Carcinoma

D. Sarcoma

Answer: B



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58. Which of the following is not correctly matched ?

A. Dengue fever-Arbovirus

B. Plague-Yersinia pestis

C. Syphilis-Trichuris trichura

D. Sleeping Sickness-Trypanosoma gambiense

Answer: C



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59. Blood cancer is called:

- A. Leukemia
- B. Thrombosis
- C. Haemophilia
- D. Hemolysis

Answer: A

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60. Which of the following causes plague ?

- A. Salmonella typhimurium
- B. Trichinella spiralis
- C. Yersinia pestis
- D. Leishmania donovani

Answer: C

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61. The severe and fatal malaria is caused by

A. P.Vivax

B. P.ovale

C. P.malariae

D. p.falciparum

Answer: D



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62. Which stage of Plasmodium is infective for Mosquito

A. Trophozoite

B. Gametocyte

C. Ookinete

D. Sporozoite

Answer: B



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63. Which one is not a symptom of *Entamoeba histolytica* infection

A. Relapsing fever

B. abdominal pain

C. Blood in stool

D. Irregular bowel

Answer: A



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64. Recurrence of high temperature in malaria at intervals is due to completion of

- A. Erythrocytic schizogony
- B. Sporogony
- C. Gamogony
- D. Exoerythrocytic schizogony

Answer: A



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65. Infectious stage of Plasmodium is

- A. Trophozoite
- B. Sporozoite
- C. Cryptozoite

D. Metacryptozoite

Answer: B



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66. Small pox' (Variola) disease is caused by

A. virus

B. Bacterium

C. Helminth

D. Protozoan

Answer: A



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67. Which pair of diseases is viral?

A. AIDS , syphilis

B. Typhoid, Tetanus

C. Rabies, Mumps

D. Cholera, T.B.

Answer: C



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68. Which is not a water borne disease ?

A. Asthma

B. Cholera

C. Amoebiasis

D. Typhoid

Answer: A



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69. Secondary host of *Taenia solium* is:

- A. Cow
- B. Pig
- C. Sheep
- D. Human

Answer: B



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70. Antibody production is carried out by

- A. Monocytes
- B. Leucocytes
- C. Lymphocytes

D. Erythrocytes

Answer: C



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71. AIDS was first reported in U.S.A in

A. Russia

B. France

C. U.S.A.

D. Germany

Answer: C



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72. AIDS is

A. TMV

B. Human T-cell leukemia virus

C. Bacterium

D. Blood cancer

Answer: B



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73. Chemically an antibody is

A. Protein

B. Lipoprotein

C. Lipid

D. Nucleoprotein

Answer: A



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74. An antiviral substance produced in response to viral infection for restricting its multiplication is

- A. Antigen
- B. Antiviron
- C. Interferon
- D. Virion

Answer: C



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75. 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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76. A person has developed interferons in his body. He seems to carry an infection of

A. Tetanus

B. Malaria

C. Measles

D. Typhoid

Answer: C



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77. Which is introduced during small pox vaccination ?

- A. Antibodies
- B. Leucocytes
- C. Antibiotics
- D. Attenuated virus

Answer: D



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78. Hypersensitivity to an allergen is due to

- A. Increase in temperature
- B. Food habits
- C. Age
- D. Aberrant functioning of immune system

Answer: D



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79. AIDS day is

- A. May 1
- B. December 20
- C. June 1
- D. December 1

Answer: D



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80. A molecule that elicits an immune response is called

- A. Antigen

B. Antibody

C. Carcinogen

D. Mutagen

Answer: A



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81. Inflammatory response in allergy is caused by the released of one of the following by mast cells

A. ANTibodies

B. Antigens

C. Histamine

D. All the above

Answer: C



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82. Diphtheria is caused by

- A. Virus
- B. Bacterium
- C. Nematode
- D. Protozoan

Answer: B



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83. Which of the following disease is now considered nearly eradicated from India

- A. Plague
- B. Polimyelitis
- C. Small pox

D. Kala-azar

Answer: C



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84. Dengue is caused by

A. Female Anopheles

B. Female Aedes

C. Male Anopheles

D. All the above

Answer: B



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85. Spread of cancerous cells to distant places is

A. Malignancy

B. Metastasis

C. Mutations

D. Benign tumour

Answer: B



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86. Insect that spreads plague is

A. Anopheles

B. Pediculus

C. Xenopsylla

D. Yersinia

Answer: C



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87. Which one is a viral disease ?

A. Diphtheria

B. Typhoid

C. Cholera

D. Measles

Answer: D



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88. Diphtheria is due to toxin released by

A. Dead bacteria

B. Living bacteria

C. Virus

D. Immune cells

Answer: B



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89. Fever, delirium slow pulse, abdominal tenderness and rose colored rash indicate the disease

A. Typhoid

B. Measles

C. Tetanus

D. Chicken pox

Answer: A



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90. Which of the following is cancerous state of blood?

- A. uraemia
- B. leukemia
- C. proteinemia
- D. chloremia

Answer: B



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91. jaundice is due to

- A. excessive intake of curcuma
- B. excessive intake of sugar
- C. pork
- D. contaminated water

Answer: D



Watch Video Solution

92. Arbovirus(transmitted by arthropods)causes

A. malaria

B. dengue

C. filariasis

D. amoebiasis

Answer: B



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93. Typhoid is caused by

A. Escherichia

B. Shigella

C. Salmonella

D. Giardia

Answer: C



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94. Chloroquine is given for treating

A. AIDS

B. cancer

C. tetanus

D. malaria

Answer: D



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95. Which type of cancer is found in lymph nodes and spleen

- A. carcinoma
- B. sarcoma
- C. leukemia
- D. lymphoma

Answer: D



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96. Symptoms of paroxysms in malaria are due to

- A. Sporozoite
- B. Gametocyte
- C. Pre-erythrocytic cycle
- D. Erythrocytic cycle

Answer: D



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97. Interferon acts against

A. bacteria

B. fungus

C. virus

D. snake venom

Answer: C



Watch Video Solution

98. AIDS is transmitted through

A. hand shake

B. countership

C. blood transfusion

D. all of above

Answer: C



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99. Antibodies are:

A. gamma globulins

B. vitamins

C. albumins

D. sugars

Answer: A



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100. An autoimmune disease is:

- A. AIDS
- B. haemophilia
- C. allergy
- D. myasthenia gravis

Answer: D



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

- A. ss DNA
- B. ds DNA
- C. ss RNA

D. ds RNA

Answer: C



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102. Which of the following disease is due to an allergic reaction

- A. goitre
- B. Hay fever
- C. enteric fever
- D. skin fever

Answer: B



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103. Passive immunity is defined as immunity

A. inherited

B. obtained through vaccination

C. acquired through infection

D. obtained through sera of other animals enriched with antibodies

Answer: D



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104. Gamma -Globulins are synthesised in

A. lymph and lymph nodes

B. liver

C. bone marrow

D. kidney

Answer: A



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105. Most abundant immunoglobulin is:

A. IgD

B. IgE

C. IgG

D. IgA

Answer: C



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106. The term 'active immunity' means

A. resistance developed before disease

B. resistance developed after disease

C. increased heart beat

D. increased flow of blood

Answer: B



[Watch Video Solution](#)

107. Immunoglobulin that increases in number during allergy is

A. IgA

B. IgE

C. IgG

D. IgM

Answer: B



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108. During infection T-cells interact with

A. Macrophages

B. B-cells

C. Infected cells

D. Erythrocytes

Answer: B



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109. Vaccination protects a person from disease because of

A. help in better digestion

B. increase RBC count

C. produces antibodies

D. corrects body heating system

Answer: C



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110. Event in body defence against infection are

A. inflammation ,chemotaxis, diapedesis

B. inflammation,diapedesis, chemotaxis, phagocytosis,and digestion

C. digestion, diapendesis, phagocytosis, chemotaxis, and inflammation.

D. diapedesis, chemotaxis , digestion , phagocytosis, and inflammation.

Answer: A



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111. Prophylactic drug for malaria is

A. tetracycline

B. nux vomica

C. aspirin

D. proguanil

Answer: D



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112. Plague is caused by

A. Xanthomonas

B. Pasteurella pestis

C. vericella virus

D. Pseudomonas

Answer: B



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113. A communicable disease is

- A. Kwashiorkor
- B. Diphtheria
- C. Diabetes
- D. Hypertension

Answer: B



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114. AIDs ,Mumps ,Measels,Chickenpox, Polio, Influenza and rabies are caused by

- A. fungus
- B. bacteria
- C. Viruses

D. protozoa

Answer: C



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115. Some protection is provided against carcinogens by

A. Penicillic acid

B. Aflatoxin

C. Streptomycin

D. Tocopherol/vit.E.

Answer: D



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116. A disease which causes maximum deaths in children is

A. Diphtheria

B. Measles

C. Tuberculosis

D. Whooping cough

Answer: C



Watch Video Solution

117. Select the viral disease

A. Diabetes

B. Tetanus

C. Leprosy

D. Poliomyelitis

Answer: D



Watch Video Solution

118. Which of the following disease is now considered nearly eradicated from India

- A. plague
- B. kala-azar
- C. small pox
- D. Poliomyelitis

Answer: C



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119. Which is not correctly matched

- A. dengue fever-Arbovirus
- B. plague-Yersinia pestis

C. sleeping sickness -Trypanosoma

D. syphilis-Treponema pallidum

Answer: D



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120. Which one is not correct match?

A. malaria-Trypanosoma

B. Gonorrhoea-Virus

C. AIDS-Bacillus

D. Syphilis-Treponema pallidum

Answer: D



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121. There is oozing of semisolid material which forms a tough membrane over air passage. The disease is

- A. T.B
- B. Tetanus
- C. Pertussis
- D. Diphtheria

Answer: D



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122. Assertion: Cancer is contagious and cells can spread from one person to other.

Reason : Cancerous cells are highly differentiated cells.

- A. if both are true with reason being correct explanation
- B. both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. and both are wrong

Answer: D

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123. A disease transferred from mother to child through placenta is

A. German measles

B. Syphilis

C. AIDS

D. All of above

Answer: D

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124. Edward Junner prepared the vaccine for smallpox virus by using:

- A. Attenuated small pox virus
- B. Small doses of small pox virus
- C. Attenuated cow's pox virus
- D. Large dosesof small pox virus.

Answer: C



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125. Which is wrong?

- A. body's first line of defence is skin
- B. Second line of defence is skin and phagocytic cells
- C. Third line of defence is immune system

D. Lines of body defence are skin, phagocytic cells and immune system.

Answer: B

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126. James Phipps and Ali Marvow are related to viral disease that has disappeared

- A. Cow pox
- B. Small pox
- C. Chicken pox
- D. Tuberculosis

Answer: B

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127. Which of the following has the function of engulfing foreign materials?

- A. Macrophages
- B. Plasma cells
- C. Mast cells
- D. Lymphocytes

Answer: A



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128. Edward Jenner is called father of

- A. Immunology
- B. Microbiology
- C. Virology
- D. Serology

Answer: A



Watch Video Solution

129. Immunoglobulin found in serum (of new born) is

A. IgG

B. IgA

C. IgM

D. IgN

Answer: A



Watch Video Solution

130. AIDS spreads through

A. Blood transfusion

B. Placental transmission

C. Sexual intercourse

D. All the above

Answer: D



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131. Interferon suppresses the pathogenic activity of

A. Bacteria

B. Protozoa

C. Viruses

D. Helminths

Answer: C



[Watch Video Solution](#)

132. AIDS is caused by

- A. Rubeola virus
- B. Varicella virus
- C. Human immunodeficiency virus
- D. Treponema pallidus

Answer: C



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133. AZT is the treatment of:

- A. Malaria
- B. AIDS
- C. T.B.
- D. Kala-azar

Answer: B



Watch Video Solution

134. Interferons are synthesized in response to:

- A. Viruses
- B. Bacteria
- C. Mycoplasma
- D. Fungi

Answer: A



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135. Binding of antigen to antibody is through

- A. Electrostatic interactions

B. Covalent bonds

C. Disulphide bridges

D. Amide formation

Answer: A



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136. Hepatitis B vaccine is a:

A. First generation vaccine

B. Second generation vaccine

C. Third generation vaccine

D. Fourth generation vaccine

Answer: B



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137. Resistance developed in an individual as a result of antigenic stimulus is

- A. Natural immunity
- B. Active acquired immunity
- C. Passive acquired immunity
- D. Artificial immunity

Answer: B



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138. A mosquito borne viral disease is

- A. Malaria and Chagas' disease
- B. Yellow fever and Dengue
- C. Filariasis and Typhus

D. Kala-azar and Diphtheria

Answer: B



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139. Carcinoma is cancer of

A. Lymphocytes

B. Ectoderm and endoderm/Epithelial tissue

C. White blood corpuscles

D. muscles

Answer: C



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140. The treatment of cancer with X-rays or γ -rays is called:

- A. Radiotherapy
- B. Chemotherapy
- C. Hormone therapy
- D. Immunotherapy

Answer: A

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141. Zoonotic disease transmitted to humans is

- A. Measles
- B. Diphtheria
- C. Measles
- D. Rabies

Answer: D

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142. Life cycle of Plasmodium species causing benign tertiary malaria consists of

- A. Pre-erythrocytic cycle
- B. Erythrocytic cycle
- C. Post -erythrocytic cycle
- D. All the above

Answer: D



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143. Filariasis is due to

- A. Helminth
- B. Protozoan

C. Bacterium

D. Virus

Answer: A



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144. Causal organism of dengue is

A. Arbovirus

B. Wuchereria

C. Anopheles

D. Culex

Answer: A



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145. Leprosy is also called

- A. Hansen's disease
- B. Infantile paralysis
- C. Koch's disease
- D. Pertussis

Answer: A



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146. Tumour promoter is

- A. Oncogene promoting cancer
- B. Substance that produces tumour
- C. Substance that activates transcription in cancer cells
- D. All the above

Answer: C



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147. A disease on the verge of extinction in India is

- A. AIDS
- B. kala-azar
- C. Poliomyelitis
- D. Measles

Answer: C



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148. Which of the following is a bacterial disease ?

- A. Leprosy

B. Measles

C. Diabetes

D. Scurvy

Answer: A



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149. Which of these is most infectious disease

A. AIDS

B. Hepatitis -B

C. Malaria

D. Cough and cold

Answer: D



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150. Salmonella causes

- A. Polio
- B. T.B.
- C. tetanus
- D. Typhoid

Answer: D



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151. Lung cancer is caused by

- A. Coal mining
- B. Calcium fluoride
- C. Cement factory
- D. Bauxite mining

Answer: B



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152. One of the following is not cancer

A. Carcinoma

B. Glaucoma

C. Sarcoma

D. Lymphoma

Answer: B



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153. The AIDS virus spreads through:

A. Suppressor T-cells

B. Carrier T-cells

C. Helper T-cells

D. Killer T-cells

Answer: C



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154. A severe form of jaundice is caused by

A. Hepatitis C

B. HIV

C. Hepatitis A

D. Hepatitis B

Answer: D



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155. The one used for treatment of thyroid cancer is

- A. U-238
- B. Ra-224
- C. C-14
- D. I-131

Answer: D



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156. Metastasis is associated with:

- A. Benign tumour
- B. Malignant
- C. Both benign and malignant tumour
- D. Crown gall tumour

Answer: B



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157. T-lymphocytes mature in

- A. Pancrease
- B. Spleen
- C. bone marrow
- D. Thymus.

Answer: D



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158. Resistance against disease is provided by

- A. Antigens

B. Immunoglobulins

C. Histamine

D. HLA proteins

Answer: B



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159. Which of the following are involved in body defence ?

A. Neutrophils

B. Macrophages

C. Lymphocytes

D. All the above

Answer: D



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160. T.T. and TAB second booster dose is given at the age of

- A. 2-3 years
- B. 4-6 years
- C. 10th years
- D. 16th years

Answer: D



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161. BCG vaccine provides protection against

- A. Measles
- B. T.B.
- C. Cholera
- D. Small pox

Answer: B



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162. Shock organ of allergy is

- A. Spleen
- B. Heart
- C. lungs
- D. kidney

Answer: A



View Text Solution

163. Vaccination provides

- A. Active immunity

B. Passive immunity

C. Natural immunity

D. Both A and B

Answer: A



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164. Hay fever is due to

A. Hepatitis

B. Allergy

C. Dengue

D. Helper T-cells

Answer: B



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165. HIV decreases natural immunity of the body by:

- A. Attacking B-lymphocytes
- B. Destroying antibodies
- C. Attacking T-lymphocytes
- D. Destroying erythrocytes

Answer: C



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166. Western blot test is used for confirmation of

- A. Filaria
- B. Anaemia
- C. Malaria
- D. AIDS

Answer: D



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167. Lysis of foreign cell is initiated by antibodies of:

- A. IgM only
- B. IgA only
- C. IgM and IgG
- D. IgD and IgE

Answer: C



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168. Cyclosporin is useful in

- A. Prophylactic for viruses

- B. Immunosuppressant
- C. Prophylactic for marasums
- D. Treating allergic eczema

Answer: B

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169. Assertion . Histamine is involved in allergic and inflammatory reactions . Reason. Histamine is vasodilator

- A. if both are true with reason being correct explanation
- B. both true but reason is not correct explanantion
- C. assertion is true but reason is wrong
- D. and both are wrong

Answer: A

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170. Antibody is connected with

- A. Immune system
- B. Digestive system
- C. Respiratory system
- D. Skeletal system

Answer: A



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171. Antibodies are produced by

- A. Histiocytes
- B. Mast cells
- C. Plasma cells

D. Fibroblasts

Answer: C



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172. 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 nonspecific immunity

Answer: B



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173. What is true about T-lymphocytes in mammals?

- A. There are three main types-cytotoxic helper and suppressor
- B. They originate in lymphoid tissues
- C. They scavenge damaged cells and cellular debris
- D. They are produced in thyroid

Answer: A



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174. A person is injected with the globulin against hepatitis. This is

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

Answer: C



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175. Migration of phagocytes and other leucocytes towards the place of infection occurs through

- A. Thrombosis
- B. Diapedesis
- C. Emboly
- D. Phagocytosis

Answer: B



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176. AIDS is

A. Acquired immunodeficiency syndrome

B. All the India drug substance

C. Acquired immunodeficiency society

D. Acquired intradeficiency syndrome

Answer: A



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177. Organ transplant rejection may be prevented using:

A. Antibodies

B. New T-cell

C. Immunostimulatory drugs

D. Immunosuppressant drugs

Answer: C



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178. The T-lymphocytes recognize:

- A. Polysaccharies
- B. Nucleic acid
- C. Peptides
- D. Recurring molecular groups

Answer: D



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179. The segment of antigen that are specifically recognized by individual antibody is known as:

- A. Memory regions
- B. Epitopes

C. Nondeterminants

D. Self limitation

Answer: B



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180. 'Histamines' the inflammation producing substances are produced by which cells of the body?

A. Macrophages

B. Sustentacular cells

C. Mast cells

D. Collagen fibres

Answer: C



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181. Interferons act against viral infection by

- A. Protecting other cells against virus
- B. Functioning as macrophages
- C. Providing antibodies
- D. Directly destroying genetic material of virus

Answer: A



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182. Rejection of transplanted organ is prevented by regular use of

- A. Cyclosporin
- B. Calcitonin
- C. Thrombin
- D. Pyroxin

Answer: A



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183. A person stung with bee is administered penicillin . The person dies.

Death may be due to

- A. Anaphylactic shock
- B. Prophylactic shock
- C. Autoimmunity
- D. Sedation

Answer: A



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184. Which immunoglobulin is the largest in size

A. IgA

B. IgD

C. IgE

D. IgM

Answer: D



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185. An autoimmune disease is

A. cancer

B. Erythroblastosis foetalis

C. Asthma

D. Rheumatoid arthritis

Answer: D



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186. Which cell of immune system cause pore formation at the surface of the plasma membrane

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

Answer: B



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187. The confirmatory test used to diagnose AIDS is:

- A. ELISA
- B. PCR

C. Western blot

D. ESR

Answer: C



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188. Which of the following is correctly matched

A. National Institute of Virology-Pune

B. National Institute of Communicable Diseases-Lucknow

C. Central Drug Research Institute -Kasauli

D. National Institute of Nutrition -Mumbai

Answer: A



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

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

Answer: B



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190. Perspiration contains an enzyme that kills bacteria. The enzyme is:

- A. Lipase
- B. lysozyme
- C. protease
- D. Reductase

Answer: B



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191. What is the first step in the Southern Blot technique

- A. Denaturation of DNA on gel for hybridisation with specific probe
- B. Digestion of DNA by restriction endonuclease
- C. Production of a group of genetically identical cells
- D. Isolation of DNA from a nucleated cell such as the one from the scene of crime.

Answer: A



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192. Which of the following organs is not involved in the elicitation of immune response

A. Thymus

B. Spleen

C. Lymph nodes

D. Brain

Answer: D



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193. AIDS does not spread

A. By sexual intercourse

B. By hand shake

C. Through food

D. From mother to baby

Answer: B



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194. Fever in malaria is due to

- A. Entry of cryptomerozoites into red blood corpuscles
- B. Entry of sporozoites into blood corpuscles
- C. Entry of merozoites from red blood corpuscles
- D. Relwase of merozoites from red blood corpuscles

Answer: D



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195. Kala-azar disease is caused by

- A. Leishmania donovani
- B. Trypanosoma gambiense
- C. Taenia solium

D. wuchereria bancrofti

Answer: A



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196. Cerebral malignant malaria is caused by

A. Plasmodium ovale

B. Plasmodium vivax

C. Plasmodium falciparum

D. Plasmodium malariae

Answer: C



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197. Cancer cells are characterised by

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

Answer: D

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198. Human papiloma virus cause

- A. German measles
- B. Hepatitis
- C. Gonorrhoea
- D. Genital warts

Answer: D

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199. Which of the following diseases is caused by virus ?

A. Tuberculosis

B. Typhoid

C. Polio

D. Diphtheria

Answer: C



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200. Man in the life cycle of Plasmodium is

A. Primary host

B. Secondary host

C. Intermediate host

D. None of the above

Answer: B



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201. "Lock jaw" is another name of

A. Malaria

B. kala-azar

C. tetanus

D. Diphtheria

Answer: C



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202. Disease associated with secretion of toxin is

A. Tetanus

B. T.B.

C. Food poisoning

D. AIDS

Answer: A



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203. Diphtheria is characterised by

A. Suffocation

B. Hydrophobia

C. Dehydration

D. Gum bleeding

Answer: A



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204. Which of the following is quartan in periodicity ?

A. *P. malariae*

B. *P. vivax*

C. *P. ovale*

D. *P. falciparum*

Answer: A



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205. Which of the following is a bacterial disease ?

A. Anthrax

B. Rinderpest

C. Tick fever

D. Coccidiosis

Answer: A



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206. Which of the following is caused by a member of

A. Platyhelminthes

B. Aschelminthes

C. Annelida

D. Arthropoda

Answer: B



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

- A. Histamine and dopamin
- B. Histamine and kinins
- C. Interferons and opsonins
- D. Interferons and histones

Answer: B



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208. An example of liquid tumour is:

- A. Glioblastoma
- B. Andeocarcinoma
- C. Chondrosarcoma

D. Myelocystic leukemia

Answer: D



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

A. T.B.

B. Hepatitis

C. small pox

D. Cancer

Answer: B



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210. Cancer is

- A. Air borne
- B. Viral disease
- C. Environmental disorder
- D. Cellular disease

Answer: D



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211. Progenitors formed in bone marrow but differentiating elsewhere are

- A. Pre-NK cells
- B. Pre-erythroblasts
- C. Pre-T cells
- D. Myeloblasts

Answer: C



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212. Recognition and digestion by phagocytosis due to coated surface of antibodies is:

- A. Opsonisation
- B. B-cell immunisation
- C. T-cell immunisation
- D. Immunisation

Answer: A



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213. Cytokine that provides nonspecific immunity against viruses is

- A. Interleukin
- B. Interferon

C. Tumour necrosis

D. Colony stimulating

Answer: B



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214. Memory cells are formed from

A. Erythropoietic stem cells

B. Monocytes

C. T-lymphocytes

D. B-lymphocytes

Answer: C



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215. Allergens are noninfectious . They induce disorders through secretion

- A. IgM
- B. IgE
- C. Histamines
- D. Both B and C

Answer: D



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216. The best HLA (Human Leucocyte Antigen) match for trans- plants in order to preference is:

- A. Parent > Sibling > Twin > Unrelated donar
- B. Sibling > Twin > Parent > Unrelated donar
- C. Twin > Sibling > Parent > Unrelated donar

D. Twin > Unrelated donar > Parent > Sibling

Answer: C



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217. Damage to thymus in a child may lead to

- A. Loss of cell mediated immunity
- B. Loss of antibody mediated immunity
- C. A reduction in stem cell production
- D. Reduction in haemoglobin content of blood

Answer: A



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218. AIDS is caused by HIV that principally infects

- A. All lymphocytes
- B. Activator B-cells
- C. Cytotoxic T-cells
- D. T-4 helper lymphocytes

Answer: D

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219. Antigen binding site in an antibody is found between:

- A. Two light chains
- B. Two heavy chains
- C. One heavy and one light chain
- D. Both B and C depending upon nature of antigen

Answer: C

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220. Assertion : Interferons are a type of antibodies produced by body cells infected by bacteria.

Reason : Interferons stimulate inflammation at the site of injury.

- A. if both are true with reason being correct explanation
- B. both true but reason is not correct explanation
- C. assertion is true but reason is wrong
- D. and both are wrong

Answer: D



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221. Assertion (A): Organ transplantation patients are given immunosuppressive drugs.

Reason (R): Transplanted tissue has antigens which stimulate the specific immune response of the recipient.

A. if both are true with reason being correct explanation

B. both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. and both are wrong

Answer: A



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222. Monoclonal antibodies are produced from hybrid cells, called hybridomas. The cells employed to obtain these hybridoma cells are:

A. T-lymphocytes and myeloma cells

B. B-lymphocytes and myeloma cells

C. B-lymphocytes and myeloma cells

D. Lymphoma cells bone marrow cells

Answer: C



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223. Antibodies in our body are complex

- A. Lipoproteins
- B. Steroids
- C. Prostaglandins
- D. Glycoproteins

Answer: D



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224. Innate immunity is provided by

- A. Antibody
- B. Neutrophils

C. B-cells

D. T-cells

Answer: B



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225. Match the columns:



A. (a)-(r),(b)-(s),(c)-(t),(d)-(q)

B. (a)-(t),(b)-(r),(c)-(q),(d)-(p)

C. (a)-(s),(b)-(r),(c)-(t),(d)-(q)

D. (a)-(r),(b)-(s),(c)-(q),(d)-(t)

Answer: A



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226. Assertion (A): A person who has received a cut and is bleeding needs to be given antitetanus treatment.

Reason(R): Antitetanus injection provides immunity by producing antibodies for tetanus.

- A. if both are true with reason being correct explanation
- B. both true but reason is not correct explanation
- C. assertion is true but reason is wrong
- D. and both are wrong

Answer: A



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227. Assertion . Mast cells in human body release excessive amount of inflammatory chemicals which cause allergic reactions.

Reason . Allergens in the environment on reaching human body stimulates mast cells in certain individuals

A. if both are true with reason being correct explanation

B. both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. and both are wrong

Answer: A



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228. Assertion: Tapeworm, roundworm and pinworm are endoparasites of human intestine.

Reason: Improperly cooked food is the source of intestinal infections.

A. if both are true with reason being correct explanation

B. both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. and both are wrong

Answer: B



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229. Assertion : Escherichia coli, Shigella sp. And salmonella sp. Are all responsible for diarrhoeal diseases.

Reason : Dehydration is common to all types of diarrhoeal disease and adequate supply of fluids and electrolytes should be ensured.

- A. if both are true with reason being correct explanation
- B. both true but reason is not correct explanation
- C. assertion is true but reason is wrong
- D. and both are wrong

Answer: B



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230. Which of the following vaccines are injected to babies at the age of $1\frac{1}{2}$, $2\frac{1}{2}$ and $3\frac{1}{2}$ months

- A. polio and BCG
- B. BCG and DPT-hib
- C. DPT-hib and polio
- D. BCG and hepatitis B

Answer: C



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231. What is the function of lymphocytes

- A. destruction of poisonous substances
- B. destruction of bacteria
- C. destruction of RBC

D. none of above

Answer: B



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232. T- cells respond to pathogen by producing

A. killer T- cells

B. helper T- CELLS

C. supressor T- cells and memory cells

D. killer T-cells , helper T-cells and suppressor T-cells

Answer: D



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233. Which of the following is an example of carcinoma?

- A. cancer of lymph gland
- B. cancer of muscle
- C. cancer of blood
- D. melanoma cancer of skin

Answer: D



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234. When children play bare footed in pools of dirty water and flood water, they may suffer from disease like:

- A. leptospirosis and bilharzia
- B. malaria ,amoebic dysentery and leptospirosis
- C. bilharzia, infective hepatitis and diarrhoea
- D. guineaworm infection , elephantiasis and amoebic dysentery

Answer: C



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235. Immune response to first encounter with an antigen is called:

- A. primary immune response
- B. secondary immune response
- C. memory
- D. clonal selection

Answer: A



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236. Excessive and inappropriate immune response to an antigen is:

- A. anaphylaxis
- B. multiple sclerosis

C. allergy

D. immune diffiency

Answer: C



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237. The function of IgE is:

A. mediate in allergic response

B. activation of B-cells

C. protection from inhaled and ingested pathogen

D. stimulation of complement system , passive immunity to foetus

Answer: A



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238. Conversion of antigen into harmless insoluble matter by antibody is

- A. neutralisation
- B. opsonization
- C. activation
- D. agglutination

Answer: D



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239. ELISA is used in detection of

- A. hay fever tetanus
- B. AIDS
- C. tuberculosis
- D.

Answer: C



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240. A localized inflammatory response appears at the site of infection causes redness, swelling, pain and heat due to certain chemicals which are:

- A. histamine and cerumen
- B. prostaglandins and histamine
- C. cerumen and prostaglandins
- D. cerumen and mucus

Answer: B



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241. Inflammation reaction is brought about by

- A. mast cells
- B. macrophages
- C. plasma cells
- D. adipose cells

Answer: A

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242. One of the inflammatory reactions induced by histamines is:

- A. vasoconstriction of blood vessels
- B. vasolidation of peripheral blood vessels
- C. increased vascular permeability
- D. accelerated blood clotting

Answer: D

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243. During inflammation, which of the following is secreted by connective tissue?

- A. serotonin
- B. heparin
- C. glucagon
- D. histamine

Answer: D



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244. Antibodies are formed by

- A. T-cells
- B. monocytes

C. phagocytes

D. B- cells

Answer: D



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245. Which substance , on introduction into human body forms antibodies

A. antigen

B. antibody

C. histamine

D. both A and B

Answer: A



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246. Which is a unit of immune system

- A. lymphocytes
- B. erythrocytes
- C. chondrocyte
- D. parasite

Answer: A



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247. Characters of acquired immunity are

- A. Difference between self and nonself
- B. Specificity of antigen
- C. Retains memory
- D. All the above

Answer: D



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248. ELISA is

- A. Enzyme linked immunosorbent assay
- B. Enzyme linked ionsorbent assay
- C. Enzyme linked inductive assay
- D. None of the above

Answer: A



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249. Which one secretes antibody

- A. Neutrophil

B. Eosinophil

C. Lymphocyte

D. Monocyte

Answer: C



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250. Each immunoglobulin has two heavy chains and two light chains . The binding site is found in

A. Variable region of heavy chain

B. Variable region of light chain

C. Constant region of light chain

D. Variable region of both heavy and light chain

Answer: D



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251. Action of lysozyme is:

- A. Morphological
- B. Physiological
- C. Anatomical
- D. None of the above

Answer: B



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252. Increased asthmatic attacks in certain seasons are due to

- A. Inhalation of seasonal pollen
- B. Heat and humidity
- C. Low temperature

D. Eating preserved fruits

Answer: A



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253. Lysozyme found in saliva, perspiration and tears , destroys

A. Certain fungi

B. Certain bacteria

C. All viruses

D. Most virus infected cells.

Answer: B



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254. Which is not a T-lymphocyte ?

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

Answer: D

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255. Pneumonia that infects lung alveoli is caused by

- A. Plasmodium
- B. Salmonella typhii
- C. Haemophilus influenzae
- D. None of the above

Answer: C

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256. Interferons were discovered by

- A. Zinder and Lederberg
- B. Issac and Lindermann
- C. Temin
- D. Safferman and Morris

Answer: B



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257. Patients suffering from cholera are given saline drop as

- A. Na^+ stops transmission of nerve impulse and hence sensation of pain
- B. NaCl supplies energy

C. Na^+ helps retain water in the body

D. NaCl functions as fuel for cellular activities.

Answer: C



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258. Diphtheria is caused by

A. Poisons released by living bacterial cells

B. poisons released by virus

C. Poisons released by dead bacterial cells

D. Excessive immune response by host's body

Answer: A



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259. Relative Biological Effectiveness (RBE) usually refers to damage caused by

- A. Radiation
- B. Low temperature
- C. High temperature
- D. Pollution

Answer: A



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260. Which of the following is not spread by droplet method?

- A. Measles
- B. Diphtheria
- C. Pertussis

D. Gonorrhoea

Answer: D



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261. Choose the wrong statement

- A. Time lag between infection and appearance of AIDS is a few hours to a week
- B. HIV has RNA as genetic material
- C. HIV replicates in T_4 lymphocytes
- D. ARV drugs are only partially effective in AIDS treatment

Answer: A



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262. The cancer of the epithelial cells is called:

- A. Carcinoma
- B. sarcoma
- C. Leukemia
- D. Lipoma

Answer: A



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263. It helps in the differentiation of cells of the immune system:

- A. Cortisol
- B. Thyroxine
- C. Thymosin
- D. Steroid

Answer: C



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264. HLA is group of

- A. Proteins
- B. Genes
- C. Polypeptides
- D. Chromosomes

Answer: B



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265. Which of the following provides immunity to digestive tract against antigen?

A. IgG

B. IgE

C. IgA

D. IgD

Answer: C



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266. Element required to maintain structure of immunoglobulin is

A. S

B. Ca

C. P

D. Fe

Answer: A



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267. Father of immunology is

- A. Robert Koch
- B. Ferdinand Kohn
- C. Louis Pasteur
- D. Edward Jenner

Answer: D



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268. Which one provides non-specific defence against pathogens ?

- A. T-cells
- B. Phagocytes
- C. B-cells

D. Stem cells

Answer: B



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269. What are true about angiosarcoma ?

- (a) Malignant tumour cells divide erratically
- (b) Malignant tumour formed from epithelial cells
- (c) Malignant tumours originate from mesoderm
- (d) Malignant tumours form in spleen and lymph nodes.

A. a,b

B. b,d

C. a,c

D. b,c

Answer: A



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270. 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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271. 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 non-living layer

D. Its cells are least penetrable by bacteria

Answer: A



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272. Match the columns

I

II

a Amoebiasis

i *Treponema pallidum*

b Diphtheria

ii Use only
sterilised food and
water

c Cholera

iii DPT vaccine

d Syphilis

iv Use oral
rehydration therapy

A. a-I, b-ii, c-iii, d-iv

B. a-ii, b-iii, c-iv, d-i

C. a-I, b-ii, c-iv, d-iii

D. a-ii, b-iv, c-I, d-iii

Answer: B



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

- A. Physiologically barriers
- B. Physical barriers
- C. Cytokine barriers
- D. Cellular barriers

Answer: A



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274. Anaphasia is

- A. Transfer of cancer cells
- B. Formation of tumour
- C. Loss of cell adherence and cell differentiation
- D. Action of lysosomes over cells

Answer: C

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275. A droplets infection is

- A. Tetanus
- B. Pneumonia
- C. Syphilis
- D. Typhoid

Answer: B

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276. A person preparing food like Mary Milton can be a major source of spread of disease

- A. Pneumonia
- B. Syphilis
- C. Cancer
- D. Typhoid

Answer: D



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277. Which one is not correctly matched ?

- A. Glossina palpalis-Sleeping sickness
- B. Culex-Filariasis

C. *Aedes aegypti* -Yellow fever

D. *Anopheles culifaciens*-Leishmaniasis

Answer: D

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278. Hepatitis B is also Known as

A. Epidemic jaundice

B. Catarrhal jaundice

C. Serum jaundice

D. None of the above

Answer: C

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279. Bacterium concerned with pertussis is

- A. Bacillus
- B. Diplococcus
- C. Bordetella
- D. Mycobacterium

Answer: C



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280. An example of innate immunity is:

- A. PMNL-neutrophils
- B. B-lymphocytes
- C. T-lymphocytes
- D. TH cells

Answer: A



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281. A sexually transmitted disease symptomised by the development of chancre on the genitals is caused by the infection of

- A. Hepatitis B virus
- B. HIV
- C. *Treponema pallidum*
- D. *Neisseria gonorrhoeae*

Answer: D



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282. HIV is classified as retrovirus as its genetic information is contained in

A. DNA

B. DNA instead of RNA

C. RNA instead of DNA

D. Protein

Answer: C



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283. A person is suffering from frequent episodes of nasal discharge, nasal congestion, reddening of eyes and watery eyes. These are the symptoms of

A. Bronchial carcinoma

B. Rhinitis

C. Bronchitis

D. Cyanosis

Answer: B



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284. Lymphatic filariasis is caused by

A. Wuchereria

B. Ascaris

C. Taenia

D. Fasciola

Answer: A



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285. Which of the following is released initially as an inflammatory response ?

A. Interferon

B. Chitin

C. Cytokines

D. Cytokinin

Answer: C



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286. Enzyme responsible for replication of HIV in macrophages is

A. RNA polymerase

B. DNA ligase

C. DNA polymerase

D. Reverse transcriptase

Answer: D



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287. Antibodies are synthesized by

- A. B-lymphocytes
- B. helper T- Cells
- C. T-lymphocytes
- D. Memory cells

Answer: A



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288. Which gland gets enlarged in malaria

- A. Liver
- B. Spleen
- C. Pancreas

D. Adrenal

Answer: B



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289. Rejection of organ transplant is due to

A. NK cells

B. B-cells

C. Cytotoxic T-cells

D. Suppressor T-cells

Answer: C



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290. The most commonly used marker enzyme in clinical diagnosis of prostate cancer is:

- A. Amylase
- B. γ -GTPase
- C. Alkaline phosphatase
- D. Acid phosphatase

Answer: D



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291. Antibody formed of five immunoglobulin units/pentamer is

- A. IgG
- B. IgM
- C. IgA

D. IgD

Answer: B



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292. Neutrophils secrete chemicals for attracting neutrophils, monocytes, eosinophils, attachment to endothelium and dilating capillaries

- A. Cytokines
- B. Monokines
- C. Leucotrienes
- D. Lymphokines.

Answer: A



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293. Immunosuppressive cyclosporin A is obtained from

- A. *Aspergillus niger*
- B. *Penicillium notatum*
- C. *Monascus purpureus*
- D. *Trichoderma polyorum*

Answer: D



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294. Which Ig is produced in primary immune response

or

Which antibody is first to be released into blood following an infection

- A. IgA
- B. IgE
- C. IgM

D. IgG

Answer: C



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295. Incubation period of Plasmodium vivax is

A. 30 days

B. 45 days

C. 20-25 days

D. 10-14 days

Answer: D



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296. Match the columns :

| I | II |
|------------------------|----------------------------------|
| <i>a</i> Neoplasm | 1. Hematopoietic cell tumour |
| <i>b</i> Benign tumour | 2. Bone cartilage tissue cancers |
| <i>c</i> Carcinomas | 3. Malignant tumour |
| <i>d</i> Sarcomas | 4. Cancer of epithelial tissues |
| <i>e</i> Lymphomas | 5. Noncancerous tumour |
| | 6. Initiation of new tumours |

A. a-3,b-5,c-4,d-2,e-1

B. a-6,b-4,c-3,d-2,e-1

C. a-3,b-5,c-4,d-1,e-2

D. a-6,b-3,c-4,d-2,e-1

Answer: A



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297. Choose the wrong statement regarding AIDS

- A. It is an immunodeficiency disease
- B. It is caused by retrovirus HIV
- C. HIV Selectively infects and kills B-lymphocytes
- D. Genome RNA replicates via DNA intermediate

Answer: C



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298. Cells obtained from cancerous tumours are known as:

- A. lymphocytes
- B. Monoclonal cells
- C. Hybridomas
- D. Myelomas

Answer: D



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299. Who discovered oocysts in the stomach of female Anopheles ?

A. Golgi

B. Lamble

C. Ronald Ross

D. Charles Lavern

Answer: C



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300. Wuchhereria is found in

A. Lungs

B. Lymph nodes

C. Eye

D. Gonads

Answer: B



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301. Find out the odd one for parasitism

A. Bed bug

B. Lice

C. Mite

D. Plasmodium

Answer: D



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302. Antigen determinant differs from antigen binding site in a

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

Answer: D



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303. Immunomodulators

- A. Stimulate immune system
- B. Suppress immune system
- C. Some stimulate, others inhibit immune system
- D. Never suppress immune system

Answer: C



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304. The letter T in T-lymphocytes refers to

- A. Thyroid
- B. Thymus
- C. Thalamus
- D. Tonsil

Answer: B



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305. After entering T-cell , HIV first forms

- A. m RNA

B. ss DNA

C. ds DNA

D. ds RNA

Answer: B



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306. TAB vaccine is useful against

A. Polio

B. Pertussis

C. Diptheria

D. Typhoid

Answer: D



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307. What is correct ?

- A. Malignant tumours may invade its surrounding tissue
- B. Patients who have undergone surgery are given cannabinoids to relieve pain
- C. Benign tumours show metastasis
- D. Heroin accelerates body functions

Answer: A



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308. Pair of viral disease is

- A. Ringworm, AIDS
- B. Typhoid , Tuberculosis
- C. Dysentery, Common cold

D. Common cold, AIDS

Answer: D



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309. A person likely to develop tetanus is immunized by administering

or

When a quick immune response is required due to infection of a deadly microbes, the patient is injected with

- A. Weakened germs
- B. Pre-formed antibodies
- C. Dead germs
- D. Wide spectrum antibodies

Answer: B



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310. Use of antithistamines and steroid give a quick relief from

- A. Nausea
- B. Headache
- C. Allergy
- D. Cough

Answer: C



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311. Which one is vehicle born/spread by housefly ?

- A. Typhoid
- B. Cancer
- C. Rabies
- D. Mumps

Answer: A



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312. Burkitt's lymphoma is caused by

- A. HIV
- B. Reovirus
- C. E-R virus
- D. None of the above

Answer: C



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313. Immunological destruction of body tissue or product due to antibodies reacting with the same as antigen is called

- A. Anaphylaxis
- B. Autoimmune disease
- C. Prophylaxis
- D. Immuno-deficiency disease

Answer: B



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314. Macrophages are derived from

- A. Neutrophils
- B. Lymphocytes
- C. Monocytes
- D. Basophils

Answer: C



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315. Match the columns and choose the correct combination

Column I

a Natural active

b Artificial passive

c Artificial active

d Natural passive

Column II

p Immunity developed by heredity

q From mother to foetus through placenta

r Injection of antiserum to travellers

s Fighting infection naturally

t Induced by vaccination

A. a-s,b-t,c-q,d-r

B. a-p,b-q,c-r,d-t

C. a-t,b-s,c-r,d-p

D. a-s,b-r,c-t,d-q

Answer: D



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316. Bronchogenic carcinoma is the cancer fo

- A. Breast
- B. Intestine
- C. Lungs
- D. Liver

Answer: C



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317. The disease caused by *Trypanosoma gambiense* is

- A. Sleeping sickness
- B. kala-azar
- C. Diptheria
- D. Dysentery

Answer: A



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318. How many variable segments are present in the basic structure of antibody molecules

A. One

B. Two

C. Three

D. Four

Answer: B



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319. Identify the wrongly matched pair:

- A. Thphoid-Widal test
- B. Plague-viral disease
- C. Malignant malaria
- D. Common cold-Rhinovirus

Answer: B

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320. In the immune sustem, interferons are a part of

- A. Physiologically barriers
- B. macrophages
- C. Physical barriers
- D. Ctyokine barriers

Answer: D

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321. Which one of the following diseases is caused by bacteria

- A. Rabies
- B. Small pox
- C. Measles
- D. Tuberculosis/Plague

Answer: D



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322. Antibodies are of which class of proteins

- A. Structural
- B. Transport
- C. Immunoglobulin

D. Enzymatic

Answer: C



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323. Which of the following is an autoimmune disease

A. Graves' disease

B. Hashimoto's disease

C. Rheumatoid arthritis

D. All the above

Answer: D



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324. Widal test is used for the diagnosis of

A. Typhoid

B. Plague

C. Pneumonia

D. Diphtheria

Answer: A



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325. Elephantiasis is caused by

A. *Dracunculus medinensis*

B. *Enterobius vermiculata*

C. *Wuchereria bancrofti*

D. None of the above

Answer: C



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326. Interferons are

- A. Protein products of macrophages which destroy microbes
- B. Allergens
- C. Antibody molecules
- D. Proteins secreted by virus infected cells which protect non-infected cells from further viral infection

Answer: D



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327. Which of the following properties of acquired immunity is the basis of vaccination?

- A. Specificity

B. Memory

C. Diversity

D. Discrimination between self and nonself

Answer: B



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328. Treatment of cancer be made by

A. Radiation therapy

B. Surgery

C. Immunotherapy

D. All the above

Answer: D



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329. HIV is a member of a group of viruses called

- A. Bacteriophages
- B. Lysogenic viruses
- C. Retroviruses
- D. Gemini viruses

Answer: C



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330. Polio is caused by

- A. Virus with a single strand RNA
- B. Virus with a single strand DNA
- C. Virus with a double strand DNA
- D. Bacteriophages

Answer: A



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331. The predominant antibody in saliva is

A. IgA

B. IgD

C. IgC

D. IgM

Answer: A



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332. Which of the following techniques is safest for the detection of cancer ?

A. Magnetic resonance imaging

B. Radiography

C. Computed tomography

D. Histopathological study

Answer: A



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333. Which one of the following cannot be used for preparation of vaccination 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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334. Ringworm in humans is caused by:

- A. Fungi
- B. Nematodes
- C. Viruses
- D. Bacteria

Answer: A



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

- A. Drug addicts are least susceptible to HIV infections

- B. AIDS patients are being fully cured cent percent with proper care and nutrition
- 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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336. AIDS does not spread through

- A. Using a syringe used by an AIDS patient
- B. Through contact with clothes of an AIDS patient
- C. Through mother with AIDS to the foetus during pregnancy
- D. Through breast feeding by AIDS suffering mother to a child

Answer: B



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337. Vaccine against rabies was first developed by

- A. Jenner
- B. Shull
- C. Pasteur
- D. Goror.

Answer: C



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338. Which is not an autoimmune disease

- A. Graves' disease

B. Pernicious anaemia

C. Rheumatoid arthritis

D. Insomnia .

Answer: D



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339. Grafting of tissue or organ between individuals of different species is called

A. Xenograft

B. Isograft

C. Autograft

D. Allograft.

Answer: A



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340. Blood cancer is

- A. Melanoma
- B. sarcoma
- C. Carcinoma
- D. Leukemia .

Answer: D



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341. The parasite which has been recently eradicated from india is

- A. Leishmania donovani
- B. Dracunculus medinensis
- C. Toxoplasma gondii

D. Taenia solium .

Answer: B



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342. Interferons have been used in the treatment of

A. Ascariasis

B. Influenza

C. Filariasis

D. Giardiasis.

Answer: B



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343. Short term immunity is provided by

A. Lysozyme

B. Serum

C. Vaccine

D. Colostrum .

Answer: D



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344. In AIDS patient , a reduction of 10 % weight indicates

A. ARC

B. Acute infectious stage

C. Symptomatic stage

D. Nonsymptomatic stage .

Answer: A



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345. Aedes spreads

- A. Malaria
- B. Dengue
- C. Sleeping sickness
- D. Kala-azar

Answer: B



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346. Which one is not an STD

- A. Huntington disease
- B. Gonorrhoea
- C. AIDS

D. Syphilis

Answer: A



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347. Thpoid is â€¦â€¦ Disease

A. Viral

B. Fungal

C. Bacterial

D. Protozoan

Answer: C



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348. Nulcear leakage is:

- A. Carcinogenic
- B. Immunosuppressant
- C. Autoimmunising
- D. Infectious

Answer: A

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349. Complex formed at the time of action of T-cells is

- A. HLA
- B. STD antigen complex
- C. HLA antigen complex
- D. MHC antigen complex

Answer: D

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350. Which of the following is STD?

- A. Cancer
- B. Trichomoniasis
- C. Pneumonia
- D. malaria

Answer: B



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351. Macrophages are also known as

- A. Phagocytes
- B. B-cells
- C. NK cells

D. Tumour cells

Answer: A



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352. Cigarette smoking causes

A. Lung cancer

B. Baldness

C. Colour blindness

D. None of these

Answer: A



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353. People, who are at the high risk of getting HIV infection

- A. Individuals with multiple sexual partners
- B. Drug addicts who take drugs intravenously
- C. Individuals who require repeated blood transfusion
- D. All of the above

Answer: D

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354. Metastasis is connected with

- A. Rapid division in cancer cells
- B. Regeneration of cancer cells
- C. Spread of cancer cells to new sites
- D. All of the above

Answer: C

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355. Hodgkin's disease is an example of:

- A. Osteoma
- B. Lymphoma
- C. Leukemia
- D. Carcinoma

Answer: B



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356. Cancer is generally caused due to activation oftoand/or inactivation of

- A. Oncogene , tumour suppressor gene, protooncogene
- B. Tummour suppressor gene, oncogene, protooncogene

C. Protooncogene , oncogene, tumour suppressor gene

D. Oncogene, protooncogene, tumour suppressor gene.

Answer: C



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357. Ringworm infection is caused by

A. Wuchereria

B. Trichophyton

C. Ascaris

D. Aedes

Answer: B



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358. Which one forms chemical barrier for infections

- A. Isozyme
- B. Coughing
- C. Lysozyme
- D. Lysosome

Answer: C



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359. Drugs vincristin and vinblastin used in cancer therapy are obtained from

- A. *Rauwolfia serpentina*
- B. *Atropa belladonna*
- C. *Catharanthus roseus*

D. *Withania somnifera*

Answer: C



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360. Interferon is an antiviral substance produced by animals in response to viral infection

A. Antigen

B. Repressor protein

C. Antiviral

D. Interferon

Answer: D



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361. Which one among the following is not a component of third line of body defence?

- A. killer T-cell
- B. natural killer cells
- C. memory cells
- D. plasma cells

Answer: B



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362. The 2005 noble prize for physiology/medicine was awarded to Barry Marshall and Robin Warren of Australia for their discovery of

- A. bacterium helicobacter pylori causing peptic ulcer
- B. human papilloma virus causing cervical cancer
- C. Prion , a new biological principle of infection

D. human immunodeficiency virus

Answer: B



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363. Match the columns

| <i>I</i> | | <i>II</i> | |
|----------|-------------------------------|-----------|-------------------|
| <i>a</i> | <i>Haemophilus influenzae</i> | <i>p</i> | Malignant malaria |
| <i>b</i> | <i>Entamoeba histolytica</i> | <i>q</i> | Elephantiasis |
| <i>c</i> | <i>Plasmodium falciparum</i> | <i>r</i> | Flu |
| <i>d</i> | <i>Wuchereria bancrofti</i> | <i>s</i> | Typhoid |
| <i>e</i> | <i>Salmonella typhi</i> | <i>t</i> | Amoebiasis |

A. a-p,b-t,c-r,d-q,e-s

B. a-r,b-t,c-p,d-q,e-s

C. a-t,b-p,c-r,d-s,e-q

D. a-p,b-p,c-q,d-t,e-s

Answer: B



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364. A person suspected to suffer from AIDS is advised to undergo diagnostic test

A. ultrasound

B. WIDAL

C. MRI

D. ELISA

Answer: D



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

- A. HIV replication rapidly in helper T-lymphocytes and damages a large number of them
- B. within 15 days of sexual contact with an infected person
- C. when an infected retrovirus enters host cells
- D. when viral DNA is produced by reverse transcriptase

Answer: A



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

- A. monocytes
- B. skin

C. epithelium of urinogenital tract

D. tear

Answer: D



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367. Select the correct statement about diseases and immunisation

A. if due to some reason , B-and T- Lymphocytes are damaged the body will not produce antibody against a pathogen

B. injection of dead /inactivated pathogens causes passive immunity

C. certain protozoans have been used in mass production of hepatitis

B vaccine

D. injection of snake antivenom against snake bite is an example of active immunisation

Answer: A



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368. Which is correctly matched

- A. Disease Causative Organism Mode of infection
Typhoid Salmonella typhi With inspired air
- B. Disease Causative Organism Mode of infection
Pneumonia Streptococcus pneumoniae Droplet infection

C.

Disease Causative Organism Mode of infection
Elephantiasis Wuchereria Contaminated water and food

- D. Disease Causative Organism Mode of infection
Malaria Plasmodium vivax Bite of male Anopheles

Answer: B



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369. Read the following statement having two blanks (A) and (B): "A drug used for (A) patients is obtained from a species of the organism (B)."

The correct option for the two blanks is:

A. heart- penicillium

B. organ transplant- trichoderma

C. swine flu-monascus

D. AIDS - pseudomonas

Answer: B



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370. Immune system is made up of

A. human system

B. humoral and fibrous systems

C. humoral and cell mediated systems

D. antigen induced antibodies

Answer: C



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371. Which is correct :common cold -droplet transmission 2. typhoid-contaminated food 3.AIDS- shaking hand 4. ringworm- using infected towels

A. 1 and 2

B. 1 and 3

C. 1,2 and 3

D. 3 and 4

Answer: A



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372. Assertion . Sporozoites of malaria parasite enter human body by biting of new born female Anopheles whose mother was carrier .

Reason. Male and female gametocytes of malaria parasite develop in human intestine.

A. If both are true with reason being correct explanation.

B. both are true but reason is not correct explanation.

C. assertion is true but reason is wrong

D. both are wrong

Answer: D



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373. Motile elongate zygote of Plasmodium occurs in

A. humans RBCS

B. human liver

C. gut of female anopheles

D. salivary glands of anopheles

Answer: C



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374. Common cold differs from pneumonia in, that

- A. is communicable while common cold is deficiency diseases
- B. can be prevented by vaccine while common cold hasno vaccine
- C. is caused by virus while common cold is caused by bacterium
haemophilus influenzae
- D. infects alveoli while common cold effects nose and respiratory
passage but not lungs.

Answer: D

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375. Which one is not property of cancer cells

- A. they show the contact inhibition

- B. divide in uncontrolled manner
- C. compete with normal cells for vital nutrients
- D. not remains confined to area of formation

Answer: A

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376. Which is correctly matched

- A. antitetanus and antsnake bite injection -active immunity
- B. polymorphonuclear leucocytes and monocytes -cellular cells
- C. saliva in mouth and tear in eye in physical barriers
- D. mucus coating epithelium , urinogenital tract and HCL in stomach -
physiological barriers

Answer: B

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377. Which stage of *Wuchereria bancrofti* is infective to man

- A. first stage larva
- B. second stage larva
- C. third stage larva
- D. mature worm

Answer: C



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378. Which stage of malaria parasite causes recurrence of malaria

- A. merozoite
- B. sporozoite
- C. gametocyte

D. hypnozoite

Answer: D



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379. Bursa of Fabricius is an important organ of birds. This organ is associated with

- A. generation of basophils
- B. generation of B-cells
- C. metabolism of fatty acids
- D. production of uric acid

Answer: B



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380. Fourth moulting of ascaris occurs in

- A. lung
- B. liver
- C. intestine
- D. soil

Answer: C



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381. Lips of ascaris are

- A. one dorsal and two ventrolateral
- B. one dorsal and one ventral
- C. two dorsal and one ventrolateral
- D. two dorsal and two ventral

Answer: A



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382. Which is correctly named , printed and described

- A. *Musca domestica*-Common House Lizard, a reptile
- B. *Plasmodium falciparum*-Protozoan parasite, causes serious type of malaria
- C. *Felis tigris*-Indian Tiger, well protected in Gir forests
- D. *E. Coli* -*Entamoeba coli*, common bacterium of human intestine.

Answer: B



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383. Athlete's foot' disease is caused by

A. Tinea pedis

B. Tinea capitis

C. Rickettsia

D. Candida albicans

Answer: A



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384. Rare cancer which is marker for AIDS is

A. Lukemia

B. Kaposi's carcinoma

C. Retinoblastoma

D. Squamous cell carcinoma

Answer: B



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385. Filarial worm is transmitted by

- A. Kissing Bug
- B. Sand Fly
- C. Tsetse fly
- D. Mosquito

Answer: D



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386. The term humor in humoral immunity implies

- A. hormones
- B. Bone marrow
- C. Plasma and lymph

D. Cerebrospinal fluid

Answer: C



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387. People administered with preformed antibodies get

- A. Active immunity
- B. Passive immunity
- C. Innate immunity
- D. Auto-immunity

Answer: B



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388. Which is not a component of nonspecific defence

A. Mucous membrane

B. Phagocytosis

C. Lysozyme

D. Killer T-cells

Answer: D



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389. Following are traits of a disorder (a) Inflammation of the mucous membrane of nasal passage (b) Watery secretions by mucous glands (c) Continuous sneezing (d) Eye watering (e) Rise in body temperature .

Identify the disorder

A. Rhinitis

B. Bronchial carcinoma

C. Emphysema

D. Bronchial asthma

Answer: A



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390. Which of the following is not used for treating

A. ^{131}I

B. ^{60}Co

C. Taxol

D. Streptokinase

Answer: D



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391. Assertion. AIDS is caused by HIV, a retrovirus.

Reason. Retroviruses have RNA genome.

A. If both are true with reason being correct explanation.

B. both are true but reason is not correct explanation.

C. assertion is true but reason is wrong

D. both are wrong

Answer: B



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392. What product of immune system attaches to bacteria making them prone to be eliminated by white blood cells

A. Antigen

B. Haemoglobin

C. Antibody

D. MHC I molecule

Answer: C



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393. In anaphylactic shock, the substance which causes dilation of blood vessels and capillary leakage is

- A. Adrenaline
- B. Benadryl
- C. Albumin
- D. Histamine

Answer: D



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394. Vaccination works by producing

- A. Antibody which stays in blood
- B. Memory lymphocytes

C. Constant stimulation of immune system

D. All the above

Answer: B



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395. Cervical cancer can be caused by

A. Chlamydia

B. human papilloma virus

C. Herpes Simplex Virus

D. Neisseria gonorrhoeae

Answer: B



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396. Shape of antibody is like

A. X

B. Z

C. Y

D. O

Answer: C



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397. The cells which have CD-8 markers on the cell membrane are

A. B-lymphocytes

B. natural killer cells

C. T-cytotoxic cells

D. T-helper cells

Answer: C



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

- A. Erythrocytes
- B. T-lymphocytes
- C. B-lymphocytes
- D. Thrombocytes

Answer: B



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399. Identify the site where *Wuchereria bancrofti* is normally found in human body

- A. Blood vessels of thigh region
- B. Skin between fingers
- C. Lymphatic vessels of lower limbs
- D. Muscles of legs

Answer: C

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400. Which is causative organism of influenza

- A. Rhinovirus
- B. Myxovirus influenzae
- C. Streptococcus
- D. Salmonella

Answer: B

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401. An autoimmune disease is

- A. Allergy
- B. haemophilia
- C. AIDS
- D. Rheumatoid arthritis

Answer: D



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402. Antigen sites recognised by antibodies and T-or B-cells are

- A. Epitopes
- B. Antigen determinants
- C. Paratopes

D. Both A and B

Answer: D



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403. Disease restriction to particular area or population is

A. Endemic

B. Epidemic

C. Pandemic

D. Notifiable

Answer: A



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404. Anaphylactic shock is characterised by

- A. Constriction of peripheral blood vessels
- B. Drastic increase in blood pressure
- C. High permeability of capillaries causing loss of fluid from blood
- D. All the above

Answer: C

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405. Medicinal plant harvested from wild for anticancer compound is

- A. *Taxus baccata*
- B. *Datura stramonium*
- C. *Rauwolfia serpentina*
- D. *Ocimum sanctum*

Answer: A

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406. Plasmodium vivax causes

- A. Benign tertian malaria
- B. Malignant tertian malaria
- C. Quartan malaria
- D. Mild malaria

Answer: A



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407. Transformation of a normal cell to cancer cell may start with changes in

- A. Cytoplasm
- B. Nucleus

C. Mitochondria

D. Fibronectin

Answer: B



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408. Interferons are proteins molecules produced from

A. Normal cell

B. Infected host cells

C. Macrophages

D. B-lymphocytes

Answer: B



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409. Sexual phases (gametocyte) of Plasmodium occurs in :

- A. Salivary glands of mosquito
- B. Human RBC
- C. Intestine of mosquito
- D. Human liver

Answer: C



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410. What percentage of IgE constitutes of all antibodies in the human blood

- A. $> 0.001 \%$
- B. $\geq 10 \%$
- C. $\geq 0.1 \%$

D. $\geq 0.5\%$

Answer: A



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411. Myelogenous leukemia is due to

A. Complete loss of one chromosome of 21 st chromosome pair

B. Translocation of a part of chromosome number of 8 into chromosome 13

C. Deletion in long arm of chromosome 13

D. Deletion of long arm of chromosome 22 and its addition to chromosome 9.

Answer: D



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412. The immunoglobulin abundant in colostrum is

or

The yellowish fluid colostrum has abundant antibodies to protect the infant

A. IgG

B. IgA

C. IgM

D. IgE

Answer: B



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413. Read the statement and choose the correct option

(I) Secretion of interferons is a physiological barrier of innate immunity

II. T-lymphocytes are responsible for cell mediated immunity

III. Injection given against snake venom is a type of active immunisation

IV. Antibodies produced during allergic reactions are of IgA type

A. I and II alone are correct

B. II and IV alone are correct

C. I alone is correct

D. II alone is correct

Answer: D



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414. Match the columns I, II and III. Choose the correct option.

| I | II | III |
|----------------|-----------------------------------|---|
| (1) Typhoid | (a) <i>Haemophilus influenzae</i> | (i) Chronic inflammation of lymphatic vessels |
| (2) Pneumonia | (b) <i>Trichophyton</i> | (iii) Dry scaly lesions on skin |
| (3) Filariasis | (c) <i>Plasmodium</i> | (iii) Chill and high fever recurring every 3-4 days |
| (4) Ringworm | (d) <i>Salmonella typhi</i> | (iv) Alveoli filled with fluid |
| (5) Malaria | (e) <i>Wuchereria malayi</i> | (v) Intestinal perforations |

A. 1-a-I,2-c-ii,3-b-iii,4-e-v,5-d-iv

B. 1-d-I,2-e-ii,3-b-iii,4-c-v,5-d-iv

C. 1-b-I,2-c-ii,c-e-iii,4-a-v,5-d-iv

D. 1-d-v,2-a-iv,3-e-I,5-d-iii

Answer: D



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415. In the immune system, interferons are a part of

A. Physical barriers

B. Physiological barriers

C. Cellular barriers

D. Cytokine barriers

Answer: D



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416. Which is caused by allergy

A. Leprosy

B. Typhoid

C. Asthma

D. Tetanus

Answer: C



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417. In the life cycle of *Wuchereria*, third and fourth moults of microfilaria take place in

A. Lymph vessels of man

B. Salivary glands of mosquito

C. Thoracic muscles of mosquito

D. Stomach of mosquito

Answer: A



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418. Identify the tumour suppressor gene/Guradian Angel of Genome

A. Oncogene

B. P53

C. Pseudogene

D. SRY

Answer: B



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419. Identify the correct sequence of stages in Ross cycle of plasmodium

(a) Sporozoite (b) Ookinete (c) Sporozoite (d) Zygote (e) Oocyst

A. $d \rightarrow b - a - e - c$

B. $c - a - e - b - d$

C. $d \rightarrow e \rightarrow b \rightarrow a \rightarrow c$

D. $d \rightarrow b \rightarrow e \rightarrow a \rightarrow c$

Answer: D



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420. Match the lists and first the correct answer

- | | |
|-------------------------------------|------------------------------------|
| (a) Conjugate vaccine | (i) <i>Human papilloma virus</i> |
| (b) Toxoid vaccine | (ii) <i>Haemophilus influenzae</i> |
| (c) Attenuated whole agent vaccine | (iii) Bubonic plague |
| (d) Inactivated whole agent vaccine | (iv) Yellow fever |
| | (v) Diphtheria |

A. a-I, b-iv,c-v,d-ii

B. a-ii,b-v,c-iv,d-iii

C. a-I,b-ii,c-iii,d-v

D. a-ii,b-iii,c-I,d-iv

Answer: B



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421. Of the following about antibodies and antigens , choose the correct set

I. An antibody consists of four identical light (L) chains and two identical heavy (H) chains

II. The stem of Y of antibody is called Fab fragment.

III. The stem of antibody and lower parts of its arms constitute constant (C) region

IV. Portion of antigen to which an antibody binds is called epitope

A. II and IV

B. I and III

C. III and IV

D. I and II

Answer: C



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422. The immunoglobulin disulfides do not join:

- A. Two heavy chains
- B. Light chain with heavy chain
- C. Two light chains
- D. All the above

Answer: C



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423. The first antibody to appear in the serum following stimulation by antigen is:

- A. IgG
- B. IgM
- C. IgE

D. IgA

Answer: B



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424. Which of the following components are involved in allergic reaction?

A. IgA and mast cells

B. IgG and basophils

C. IgE and mast cells

D. IgG and mast cells.

Answer: D



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425. B-lymphocytes differentiate and mature in

- A. Bone marrow
- B. Bursa of Fabricus
- C. Thymus
- D. both A and B

Answer: D

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426. The pathogen *Haemophilus influenzae* is responsible for the disease:

- A. Influenza
- B. Pneumonia
- C. Diphtheria
- D. Plague

Answer: B

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427. Intermediate host of malarial parasite is

A. Pig

B. Man

C. Mosquito

D. Larva of mosquito

Answer: B



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428. Immunity that develops in foetus after receiving antibodies from mother's blood through placenta is

A. Naturally acquired active immunity

B. Artificially acquired active immunity

C. Naturally acquired passive immunity

D. Artificially acquired passive immunity

Answer: C

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429. Which of the following human parasites require mosquito to complete their life cycle

A. *Ascaris lumbricoides* and *Wuchereria bancrofti*

B. *Ascaris lumbricoides* and *Leishmania*

C. *Leishmania donovani* and *Plasmodium ovale*

D. *Plasmodium ovale* and *Wuchereria bancrofti*

Answer: D

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430. Disease like malaria and filariasis are transmitted through insect vectors. Vectors can be controlled by introducing fish

- A. Labeo
- B. Gambusia
- C. Hilsa
- D. Catla

Answer: B

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431. Match the columns and find the correct option

| I | | II | |
|---------------------------------|-------|------------------------------------|--|
| (a) Natural active immunity | (i) | Develops due to vaccination | |
| (b) Natural passive immunity | (ii) | Antirabies serum | |
| (c) Artificial active immunity | (iii) | Acquired after small pox infection | |
| (d) Artificial passive immunity | (iv) | Transferred from mother to child | |

A. a-iv,b-iii,c-I,d-ii

B. a-iii,b-I,c-iv,d-ii

C. a-iii,b-iv,c-I,d-ii

D. a-iii,b-iv,c-ii,d-i

Answer: C



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432. Rhabditiform larva of *Ascaris* undergoes second and third moultings

in

A. Liver

B. Heart

C. Alveoli of lungs

D. Small intestine

Answer: C



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433. Interal bleeding, muscular, pain, blockage of intestinal passage and anaemia are symptoms of infection by

- A. Wuchereria
- B. Trichophyton
- C. Ascaris
- D. Plasmodium

Answer: C



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434. Which of the following is used in the treatment of cancer

- A. Interferon gamma
- B. Interferon alpha

C. Interferon beta

D. Reo Pro.

Answer: B



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435. Match the columns and find the correct option

I

II

- | | |
|----------------|-----------------------------------|
| (1) Typhoid | (a) <i>Haemophilus influenzae</i> |
| (2) Pneumonia | (b) <i>Trichophyton</i> |
| (3) Filariasis | (c) <i>Plasmodium</i> |
| (4) Ringworm | (d) <i>Salmonella typhi</i> |
| (5) Malaria | (e) <i>Wuchereria malayi</i> |

A. 1-d,2-a,3-e,4-b,5-c

B. 1-a,2-c,3-b,4-e,5-d

C. 1-b,2-d,3-e,4-c,5-a

D. 1-b,2-c,3-e,4-d,5-a

Answer: A



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436. Which is correct

- A. An antibody combines with a specific antigen
- B. An antibody combines with any antigen
- C. All antibodies combine with all type of antigens
- D. None of the above

Answer: A



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

- A. When the infection retro-virus enters host cells
- B. When HIV damages large number of helper T-lymphocytes
- C. When the viral DNA is produced by reverse transcription
- D. Within 15 days of sexual contact with an infected person.

Answer: B

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438. A patient having fever at intervals of 48 hours, is suffering from

- A. Malignant or benign tertian malaria
- B. Benign tertian malaria
- C. Malignant tertian fever
- D. Quartan malaria

Answer: A

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439. Choose the correctly matched pair from the following

- A. Gonorrhoea , hepatitis B-sexually transmitted diseases
- B. AIDS , gonorrhoea-viral infection
- C. Diptheria ringworm-fungal infection
- D. Diptheria, tuberculosis -protozoan infection

Answer: A



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440. Which one of the following immune system components does not correctly match with its respective role ?

- A. Interferons -Secreted by virus infected cells and protect noninfected cells from further viral infection

B. B-lymphocytes-Produce antibodies in response to pathogens into blood to fight with them

C. Macrophages-Mucus secreting cells that trap microbes entering the body

D. IgA -Present in colostrum in early days of lactation and protect infant from diseases.

Answer: C



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441. Assertion : Thymus degenerates in old, persons becomes weak

Reason: Thymus degenerates in old, individuals resulting in decreased production of thymosin.

A. If both are true with reason being correct explanation.

B. both are true but reason is not correct explanation.

C. assertion is true but reason is wrong

D. both are wrong

Answer: A



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442. Assertion : Aids and hepatitis B are sexual transmitted diseases.

Reason : There is no permanent cure for both of them

A. If both are true with reason being correct explanation.

B. both are true but reason is not correct explanation.

C. assertion is true but reason is wrong

D. both are wrong

Answer: B



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443. Assertion . Mast cells in human body release excessive amount of inflammatory chemicals which cause allergic reactions.

Reason . Allergens in the environment on reaching human body stimulates mast cells in certain individuals

- A. If both are true with reason being correct explanation.
- B. both are true but reason is not correct explanation.
- C. assertion is true but reason is wrong
- D. both are wrong

Answer: A



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444. Assertion: Filarial worm is transmitted to humans by Culex mosquito

Reason : Culex prefers to breed in fresh water

A. If both are true with reason being correct explanation.

B. both are true but reason is not correct explanation.

C. assertion is true but reason is wrong

D. both are wrong

Answer: C



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445. Which of the following pathogens is not transmitted by a vector

A. Salmonella typhi

B. Alpha virus

C. Plasmodium

D. wuchereria bancrofti

Answer: A



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446. A small rise in the body temperature of humans is corrected by : (i) Sweating (ii) Dilating the skin arteries (iii) Constricting the skin arteries (iv) Increased tension of muscles in the skin

A. I only

B. ii only

C. I and ii

D. iii and iv

Answer: C



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447. All of the following symptoms are found in jaundice except:

A. Disorder of hepatobiliary system

B. Abnormal secretion of pancreatic and gastric juices

C. Bile duct obstruction

D. Anaemia

Answer: B



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448. Which enzyme can hydrolyse peptidoglycans

A. Amylase

B. Lipase

C. Trypsin

D. Lysozyme

Answer: D



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449. This is diagnosed by the presence of a type of IgM

- A. Osteoporosis
- B. Gout
- C. Osteoarthritis
- D. Rheumatoid arthritis

Answer: D



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450. How many classes of immunoglobulins are there in humans?

- A. 3
- B. 4
- C. 5
- D. 6

Answer: C



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451. Which of the following cells decrete histamine

- A. Plasma cells
- B. Mast cells
- C. Monocytes
- D. N.K. cells

Answer: B



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452. Which of the following best explains the difference between epitope and an antigen

- A. An epitope is any foreign substance , an antigen is a foreign protein
- B. An epitope is part of a antigen where an antibody or lymphocyte receptor binds
- C. An antigen is the part of an epitope where an antibody or lymphocyte receptor binds
- D. Antigen are recognised by B-cells and antibodies , epitopes are recognised by T-cells

Answer: B



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

- A. Fibrinogen in plasma

B. Serum albumins

C. Haemocytes

D. Serum globulins.

Answer: D



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

A. Humoral immune response

B. Cell mediated immune response

C. Passive immune response

D. Innate immune response

Answer: B



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455. Identify the set of secondary lymphoid organs from the followings:

- A. Bone marrow and lymph nodes
- B. Spleen and bone marrow
- C. Bone marrow and thymus gland
- D. Spleen and lymph nodes

Answer: D



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456. Which one is correct statement with reference to *Ascaris lumbricoides*

- A. Monogenetic , dimorphic ,pseudocoelomate and coelozoic parasite
- B. Monogenetic , dimorphic, coelomate and histozoic parasite
- C. Digenetic , dimorphic, pseudocoelmate and histozoic

D. Digimorphic , coelomate and histozoic parasite .

Answer: A



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457. Match the following and find correct combination

- | | |
|--------------------------|-----------------------------------|
| (a) Obligatory anaerobe | (i) <i>Fasciola hepatica</i> |
| (b) Facultative anaerobe | (ii) <i>Antelope</i> |
| (c) Polyembryony | (iii) <i>Ascaris lumbricoides</i> |
| (d) Reservoir host | (iv) Female <i>Culex</i> mosquito |
| (e) Biological vector | (v) <i>Entamoeba histolytica</i> |

A. a-v,b-ii,c-l,d-iii,e-iv

B. a-v,b-iii,c-l,d-ii,e-iv

C. a-iv,b-ii,c-l,d-iii,e-v

D. a-iv,b-iii,c-l,d-ii,e-v

Answer: B



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458. Which of the following diseases is not treated by inactivated Whole Agent Vaccine

- A. Hepatitis -A
- B. Bubonic plague
- C. Cholera
- D. Typhoid

Answer: D



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459. Helper T-Cells : Lymphokines as

Killer T-Cells : _____

- A. Interferons

B. Lysozymes

C. Perforins

D. Prostaglandins

Answer: C



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460. Plasma cells are derived from

A. Cytotoxic T-cells

B. helper T- Cells

C. Memory B-cells

D. Memory T-cells

Answer: C



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461. Match the pairs of diseases and pathogens:

Column-I

1. Malaria
2. Filariasis
3. Typhoid
4. Schistosomiasis

Column-II

- a. *Wuchereria bancrofti*
- b. Helminth
- c. *Plasmodium falciparum*
- d. *Salmonella typhi*

A. 1-c,b-b,3-a,4-d

B. 1-d,2-a,3-b,4-c

C. 1-a,2-a,3-c,4-d

D. 1-c,2-a,3-d,4-b

Answer: D



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462. The first vaccine produced by Edward Jenner was for protected against

A. Hepatitis

B. Influenza

C. Chicken pox

D. Small pox

Answer: D



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463. The cytokine barrier among these is

A. Polymorphonuclear neutrophil

B. NK cells

C. Interferon

D. Macrophage

Answer: D



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464. Ringworms are caused by

- I. Wuchereria II. Microsporium
III. Haemophilus Epidermophyton

- A. I and II
B. II and III
C. II and IV
D. I and IV

Answer: C



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465. Read the statement and find the correct ones

1. IgE antibodies are produced in an allergic reaction
2. B-lymphocytes mediate cell mediated immunity
3. The yellow fluid colostrum has abundant IgE antibodies
4. spleen is a secondary lymphoid organ

A. 1 only

B. 1 and 2

C. 2 and 3

D. 1 and 4

Answer: D



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466. Antigens binds to this part of antibody.

A. Paratope

B. Epitope

C. FC fragment

D. Fab fragment

Answer: A



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467. Which of the following statement is correct

- A. Benign tumours show the property of metastasis
- B. Heroin accelerates body functions
- C. Malignant tumour exhibits metastasis
- D. Patients who have undergone surgery are given cannabinoids

Answer: C



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468. Natural killer lymphocytes are an example for

- A. Physiologically barriers
- B. Cellular barrier
- C. Cytokine barriers

D. Physical barrier

Answer: B



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469. Which of the following is not correct with respect to malaria

- A. Malignant malaria is caused by *Plasmodium falciparum*
- B. Female *Anopheles* mosquito is the vector
- C. Sporozoites multiply in blood
- D. RBCs rupture and release haemizoin which causes chills

Answer: C



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470. Body cells infected by viruses are destroyed mostly by

A. IgA

B. Phagocytes

C. Natural antibodies

D. Natural killer cells

Answer: D



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471. Process of weakening of pathogens is called

A. Vaccination

B. Attenuation

C. Immunisation

D. Virulence reduction

Answer: B



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472. Match the columns and choose the correct option

- | | |
|----------------|---------------------|
| (a) Allergy | (i) Malaria |
| (b) Widal test | (ii) AIDS |
| (c) ELISA test | (iii) Typhoid fever |
| (d) Haemozoin | (iv) IgE antibodies |

A. a-i,b-iii,c-ii,d-iv

B. a-iv,b-ii,c-iii,d-i

C. a-iv,b-ii,c-iii,d-i

D. a-iii,b-iv,c-ii,d-i

Answer: C



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473. Which of the following infection is transmitted chiefly from person to person

- A. Viral encephalities
- B. Meningococcal meningitis
- C. Eastern equine encephalities
- D. All the above

Answer: B

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474. Identify the wrong statements

- A. The tumor of haematopoietic cells is called leukemia
- B. Cancer arising from the epithelial tissues of internal organs and glands is referred as melanoma
- C. Sarcoma is a type of cancer where bone and cartilages are involved
- D. Only benign tumors are called as true cancer or neoplasm

A. a and b

B. b and d

C. b and c

D. a and c only

Answer: B



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475. Plasmodium initially multiplies within the liver cells and then attacks red blood cells, resulting in their rupture. Rupture of RBCs is associated with releases of a toxic substance

A. Hirudin

B. Heparin

C. Heptoin

D. Haemozoin

Answer: D



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476. Gametocytes of malarial parasite are found in

- A. Stomach of female Anopheles
- B. Stomach of male Anopheles
- C. Blood of man
- D. Salivary glands of Anopheles

Answer: C



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477. Which of the following is oncogenic virus

- A. Human immunodeficiency virus types 2
- B. Vesicular stomatitis indiana virus
- C. Human herpes virus
- D. Epstein-Barr Virus. S

Answer: D



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478. An immunoglobulin G molecule is composed of

- A. Two identical heavy chains and two identical light chains
- B. Two identical heavy chains and two different light chains
- C. Two different heavy chains and two identical light chains
- D. Two different heavy chains and two different light chains

Answer: A



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479. Which Ig is produced in primary immune response

or

Which antibody is first to be released into blood following an infection

A. IgD

B. IgG

C. IgM

D. IgA

Answer: C



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480. Who discovered vaccination against small pox?

A. Louis Pasteur

B. Selman Waksman

C. Cesar Millstein

D. Edward Jenner

Answer: D



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481. The symptoms of an allergic reaction develop in response to

- A. Interferons
- B. Interleukins
- C. Histamine
- D. Complement

Answer: C



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482. The drug used in ascariasis is

- A. Sheeshan oil
- B. Oil of Capchenopodium
- C. Chloroquine

D. Tarcamphor.

Answer: B



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483. Which genes are involved in the conversion of proto-oncogenes into oncogenes

A. Metastasis

B. Angiogenesis

C. Tumour suppressor genes

D. Transposons.

Answer: C



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484. Antibodies which stick to the surface of microbes are

- A. Antioxins
- B. Agglutinins
- C. Osponins
- D. Precipiins

Answer: C



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485. 2-naphthylamine and 4-aminobipyhenyl cause

- A. Lung cancer
- B. Liver cancer
- C. Prostate cancer
- D. Urinary bladder cancer

Answer: D



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486. Match and find the correct option

I

II

- | | |
|------------------|-----------------------------|
| (a) Interferons | (i) Fab |
| (b) Paratop | (ii) Inflammatory mediators |
| (c) Interleukins | (iii) Antiviral blood cells |
| (d) Histamine | (iv) Anticoagulant |
| | (v) Antibiotic |

A. a-iii,b-I,c-ii,d-iv

B. a-iii,b-I,c-iv,d-ii

C. a-iii,b-iv,c-v,d-ii

D. a-iii,b-ii,c-iv,d-v

Answer: B



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487. Rhabditiform larva performs extra-intestinal migration through different organs in the body of man. Arrange them in the correct sequence

(a) Liver (b) Hepatic portal vein

(c) Heart (d) Post caval vein

(e) Lungs (f) Pulmonary arteries

(g) Alveoli (h) intestine

A. d-a-b-e-f-c-h-g

B. b-a-d-c-f-e-g-h

C. e-f-a-f-b-d-g-h

D. a-b-d-f-c-g-e-h

Answer: B



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488. Study the lists and find the correct match

- (a) Liver (b) Hepatic portal vein
(c) Heart (d) Post caval vein
(e) Lungs (f) Pulmonary arteries
(g) Alveoli Intestine

A. d-a-b-e-f-c-h-g

B. b-a-d-c-f-e-g-h

C. e-f-a-c-b-g-h

D. a-b-d-f-c-g-e-h

Answer: D



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489. The pair that exhibits hyperplasia and hypertrophy is

A. Leishmania troica-Wuchereria bancrofti

B. *Nosema notabilis* -*Supharospora polymorpha*

C. *Faccicola hepatica*-*Plasmodium vivax*

D. *Sacculina* -*Carinus maenas*.

Answer: C

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490. In the life cycle of *Plasmodium vivax*, shizogony occurs in these cells of man (a) Hepatocytes (b) Adipocytes (c) Erythrocytes (d) Reticulocytes

A. b and d

B. c and d

C. a and c

D. a and b

Answer: C

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491. Match the following and select the correct option

I

- (a) Methatraxate
- (b) Diethylcarbamazine
- (c) Aureomycin
- (d) Isonicotinic acid hydrazide

II

- (i) Filariasis
- (ii) Tuberculosis
- (iii) Cancer
- (iv) Cholera
- (v) Malaria

A. a-i,-b-ii,c-ii,d-iv

B. a-iii,b-i,c-iv,d-ii

C. a-ii,b-iv,c-i,d-iii

D. a-iii,b-v,c-ii,d-i

Answer: B



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492. Which is not example of secondry lymphoid organ

A. Appendix

B. Thymus gland

C. Tonsils

D. Peyer's patches of small intestine.

Answer: B



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493. A doctor identifies symptoms of nasal congestion, headache, sore, throat, hoarseness and cough in a patient. The conclusion that the patient is infected by a pathogen

A. Adenovirus

B. Rhino virus

C. Plasmodium

D. Salmonella.

Answer: B



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494. Some of the statements about events in the life cycle of Plasmodium are given, Identify the correct statements

- A. The sporozoites reproduce sexually in liver cells
- B. The gametocytes develop in RBC
- C. Female mosquito takes up sporozoites with blood meal
- D. When mosquito bites a man, gametocytes are injected.

Answer: B



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495. Identify the incorrect statement from the following

- A. B-cells produce antibody
- B. Interferons kill viruses
- C. Response of T-cells is called cell mediated immunity
- D. Macrophages are the phagocytic cells.

Answer: B



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496. 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. CMI
- D. Auto immunity

Answer: B



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497. Helper cells are distinguished from cytotoxic T-cells by the presence of

- A. CD 2
- B. CD4
- C. CD 3
- D. IL-2 receptor

Answer: B



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498. Which one of the following stages of malarial parasite is not found in the vector

- A. Ookinete

B. Sporozoite

C. Merozoite

D. Zygote.

Answer: C



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499. The vector of Wuchereria is

A. Aedes

B. Culex

C. Anopheles

D. Pediculus

Answer: B



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500. A change in a wart or mole on the skin is observed in

- A. Adenoma
- B. Carcinoma
- C. Lymphoma
- D. Melanoma

Answer: D



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501. Which of the following is not the symptom of malaria

- A. Arthralgia
- B. Fever
- C. Dysentery
- D. Shivering

Answer: C



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502. Which of the following statements is not true for cancer cells in relation to mutations

- A. Mutations inhibit production of telomeres
- B. Mutations in proto-oncogenes accelerate the cell cycle
- C. Mutations destroy telomerase inhibitor
- D. Mutations inactivate the cell control

Answer: A



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

A. Attenuated pathogens

B. Activated pathogens

C. Harvested antibodies

D. Gamma globulin

Answer: A



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504. 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. Active immunity

B. Allergic response

C. Graft rejection

D. Auto immune disease

Answer: D

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505. Which of the following is correct regarding AIDS causative agent HIV

- A. HIV does not escape but attacks the acquired immune response
- B. HIV is enveloped virus containing one molecule of single stranded RNA and one molecule of reverse transcriptase
- C. HIV is enveloped virus that contains two identical molecules of single stranded RNA and two molecules of reverse transcriptase
- D. HIV is unenveloped retrovirus

Answer: A

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

- A. It is composed of enucleated cell
- B. It is nonliving layer
- C. Its cells are least permeable by bacteria
- D. It has no blood supply

Answer: D



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507. Assertion : IgM is a type of immunoglobulin which cannot cross the placenta

Reason : IgM is a pentamer immunoglobulin jointed by I-chain

- A. if both are true with reason being correct explanation
- B. both true but reason is not correct explanation

C. assertion true but reason is wrong

D. both are wrong

Answer: A



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508. When a plant/animal is infected with virus, it may produce an antiviral substance that is capable of inhibiting the multiplication of that virus.

Identify the correct name of this substance

A. Virion

B. Antivirion

C. Antigen

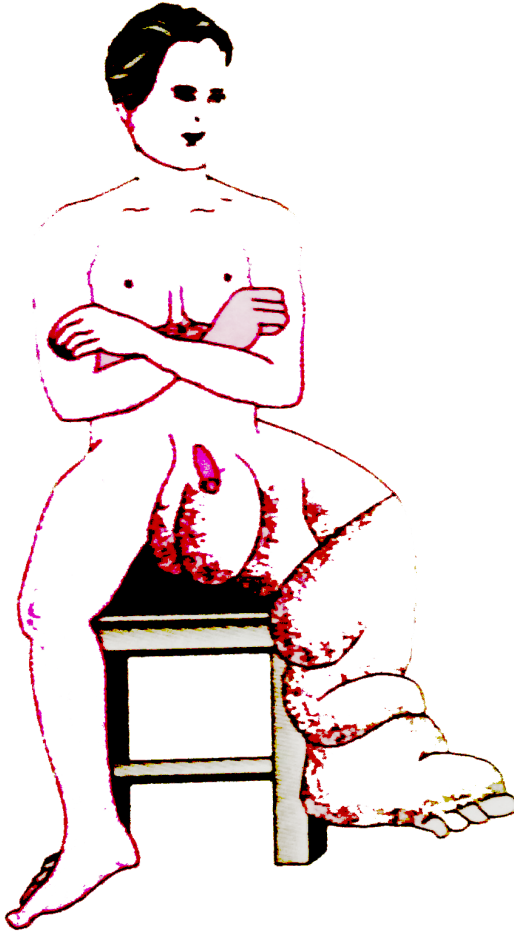
D. Interferon

Answer: D



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509. Name the worm causing the disease



A. *Epidermophyton floccosum*

B. *Ascaris lumbricoides*

C. *Wuchereria bancrofti*

D. *Entamoeba histolytica*

Answer: C

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510. Choose organism not related to condition shown here



A. *Microsporum*

B. *Trichophyton*

C. W. malayi

D. Epidermophyton

Answer: C



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511. MALT constitutes about-percent of the lymphoid tissue in human body

A. 50 %

B. 20 %

C. 70 %

D. 10 %

Answer: A



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512. Transplantation of tissues/organs to save certain patients often fails due to rejection of such tissues/organs by the patient. Which type of immune response is responsible for such rejections?

- A. Autoimmune response
- B. Cell mediated immune response
- C. Hormonal immune response
- D. Physiological immune response

Answer: B



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Check Your Grasp

1. Antibody producing plasma cells are derived from

- A. Hyelper T-cells

B. B-lymphocytes

C. Suppressor T-cells

D. Memory T-cells

Answer:



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2. IgM and IgG are

A. Phagocytic cells

B. Antigens inducing specific antibodies

C. Lysing antibodies

D. Cells producing antibodies

Answer:



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3. Allergic eczema is characterised by

- A. Raised itchy bliters
- B. Reddening of skin
- C. Formation of vesicles and scabs
- D. Both B and C

Answer:



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4. SCID is

- A. Acquired Immunodeficiency
- B. Congenital immunodeficiency
- C. Autoimmunity
- D. Immunodepressant

Answer:



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5. ARC is

- A. AIDS related complex
- B. A virus related to AIDS
- C. A congenital immunodeficiency
- D. A type of autoimmunity

Answer:



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6. Pulse polio is for

- A. Eliminating polio by 2012

B. Widespread attack of polio in certain pockets

C. Segregation of polio prone areas

D. Repeated vaccination for polio

Answer:



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7. Pulse polio was started in India during

A. 1995-96

B. 1996-79

C. 1997-98

D. 1998-99

Answer:



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8. A nonimmunised pregnant lady is given tetanus vaccination

- A. Four times
- B. Three times
- C. Two times
- D. Once

Answer:



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9. Epidemic jaundice is

- A. Hepatitis A
- B. Hepatitis B
- C. Hepatitis Y
- D. Mixture of A and B

Answer: A



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10. Infection of *Salmonella enteritidis* produces

A. Typhoid

B. Shigellosis

C. Syphilis

D. Bacterial diarrhoea

Answer: A



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11. Hypopigmented insensitive skin patch is an indication of

A. Leprosy

B. Poliomyelitis

C. Scabies

D. Eczema.

Answer:



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12. Backpacker's disease is

A. Shigellosis

B. Giardiasis

C. Amoebiasis

D. Cholera

Answer: B



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13. Sarcoma is cancer fo

A. Blood

B. Skin

C. Mesodermal tissue

D. Lymph glands

Answer:



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