



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

Human health and diseases

Text Evaluation Solved

1. A 30 year old woman has bloody diarrhoea for the past 14 hours, which one of the following organisms is likely to cause this illness?

A. *Streptococcus pyogens*

B. Clostridium difficile

C. Shigella dysenteriae

D. Salmonella enteritidis

Answer:

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2. Exo-erythrocytic schizogony of Plasmodium takes place in.....

A. RBC

B. Leucocytes

C. Stomach

D. Liver

Answer:



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3. The sporozoites of *Plasmodium vivax* are formed from

A. Gametocytes

B. Sporoblasts

C. Oocysts

D. Spores

Answer:



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4. Amphetamines are stimulants of the CNS, whereas barbiturates are ___

- A. CNS stimulat
- B. Both a and b
- C. Hallucinogenic
- D. CNS depressants

Answer:



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5. Choose the correctly matched pair.

- (a) Amphetamines – Stimulant
- (b) LSD – Narcotic
- (c) Heroin – Psychotropic
- (d) Benzodiazepine – Pain killer

A. Amphetamines-Stimulant

B. LSD-Narcotic

C. Heroin-Psychotropic

D. Benzodiazepine-Pain killer

Answer:



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6. The Athlete's foot disease in human is caused by ____

A. Bacteria

B. Fungi

C. Virus

D. Protozoan

Answer:



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7. Cirrhosis of liver is caused by chronic intake of ___

A. Opium

B. Alcohol

C. Tobacco

D. Cocaine

Answer:

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8. The sporozoite of the material parasite is present in ___

- A. Saliva of infected female Anopheles mosquito
- B. RBC of human suffering from malaria
- C. Spleen of infected humans
- D. Gut of female Anopheles mosquito

Answer:

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9. Where do the following events in the life cycle of Plasmodium take place ?

A. Fertilization-.....

B. Development of gametocytes-.....

C. Release of sporozoites-.....

D. Schizogony-.....

Answer:



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10. Paratope is an

- A. Antibody binding site on variable regions
- B. Antibody binding site on heavy regions
- C. Antigen binding site on variable regions
- D. Antigen binding site on heavy regions

Answer:



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11. Allergy involves

- A. IgE
- B. IgG
- C. IgA

D. IgM

Answer:

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12. Spread of cancerous cells to distant sites termed as

- A. Metastasis
- B. Oncogenes
- C. Proto-oncogenes
- D. Malignant neoplasm

Answer:

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13. AIDS virus has

- A. Single stranded RNA
- B. Double stranded RNA
- C. Single strandd DNA
- D. Double Stranded DNA

Answer:



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14. B cells that produce and release large amounts of antibody re called

A. Memory cells

B. Basophils

C. Plasma cells

D. Killer cells

Answer:



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15. Give below are some human organs . Identify one primary and one secondary lymphoid organ . Explain its role . Liver , thymus, stomach , thyroid , tonsils .



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16. Name and explain the type of barriers which involve macrophages.

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17. What are interferons ? Mention their role.

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18. List out chemical alarm signals produced during inflammation.

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19. Explain the process of replication of retrovirus after it gains entry into the human body.

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20. Explain the structure of immunoglobulin with suitable diagram.

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21. What are the cells involved innate immune system ?

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22. What is vaccine ? What are its types ?

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23. A person is infected by HIV. How will you diagnose for AIDS ?

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24. Autoimmunity is a misdirected immune response. Justify.

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25. List the causative agent, mode of transmission and symptoms for Diphtheria and Typhoid.

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26. A patient was hospitalized with fever and chills. Merozoites were observed in her blood. What is your diagnosis ?

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27. (i) Write the scientific name of the filarial worm that causes filariasis.

(ii) Write the symptoms of filariasis

(iii) How is this disease transmitted?

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28. List the common withdrawal symptoms of drugs and alcohol abuse.

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29. Why do you think it is not possible to produce vaccine against ' common cold ' ?

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Additional Questions

1. Pick out the disease which is caused by virus

A. Candidiasis

B. Ascariasis

C. Poliomyelitis

D. Dysentery

Answer:



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2.test is done to confirm typhoid.

A. ELISA

B. Western blot

C. Widal test

D. Southern blot

Answer: A::D

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3. Match the following

Disease	Causative organism
(a) Bacillary dysentery	i. <i>Salmonella typhi</i>
(b) Black death	ii. <i>Clostridium tetani</i>
(c) Enteric fever	iii. <i>Yersinia pestis</i>
(d) Lock jaw	iv. <i>Shigella species</i>

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4. Identify the mismatched pair

- A. {("Disease","Infection site"),("(a) Hepatitis","Liver")}`
- B. {("Disease","Infection site"),("(b)Poliomyelitis","Brain and spinal cord")}`
- C. {("Disease","Infection site"),("(c)Measles","Intestine")}`
- D. {("Disease","Infection site"),("(d)Mumps","Salivary gland")}`

Answer: A::C



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5. Identify the wrong statement regarding polio disease.

A. Polio is caused by a RNA virus.

B. One of the infection site of polio is intestine.

C. Culex mosquito acts as a vector for polio

D. Paralysis and respiratory failure are the symptoms.

Answer: A::C



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6. Yellow fever is a.....type of disease

A. Neurotropic

B. Viscerotropic

C. Pneumotropic

D. Dermotropic

Answer: B::C



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7. Which one of the following pairs is wrong.

A. (a) Amoebiasis - House fly

B. (b) African sleeping sickness - Tsetse flies

C. (c) Kala-azar - Sand fly

D. (d) Malaria - female Anopheles mosquito

Answer: A::D

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8.is the malignant form of malaria.

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9. Schizogony of plasmodium parasite in human liver cells returns in.....

- A. Sporozoites
- B. Merozoites
- C. Trophozoites
- D. Schizont

Answer:



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10. Incubation period for malaria ____



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11. match the following

A. Malarial types Duration of erythrocytic cycle
(a) Vivax malaria (i) 72 hours

B.

Malarial types Duration of erythrocytic cycle
(a) Quartan malaria (i) 36-48 hours

C.

Malarial types Duration of erythrocytic cycle
(a) Mild tertian malaria (i) 48 hours

D.

Malarial types

Duration of erythrocytic cycle

(a) malignant malaria (i) 2 days

Answer: A::B::C::D



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12. Assertion (A): Plasmodium vivax is a digenetic parasite

Reason (R): The primary host of P. Vivax is man .

A. Both (A) and (R) are true .(R) explains(A)

B. (A) is true (R) is false

C. Both (A) is true (R) are false

D. (A) is false (R) is true

Answer: A

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13. Assertion (A): Dermatomycosis is a cutaneous infection.

Reason (R): Fungus belongs to the order Trichophyton.

A. Both (A) and (R) are true. (R) explains (A)

B. (A) is true (R) is false

C. Both (A) is true (R) are false

D. (A) is false (R) is true

Answer: A::B::D

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14. Assertion (A): spleen is a primary lymphoid organ

Reason (R):Primary lymphoid organs trap antigen and destroy them.

A. Both (A) and (R are true .(R) explains(A)

B. (A) is true (R) is false

C. Both (A) and (R) are false

D. (A) is false (R) is true

Answer: A::B::C::D



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15. Assertion:(A): Paratope is the antigen -binding site

Reason(R): It is a part of antibody

A. Both (A) and (R) are true .(R) explains(A)

B. (A) is true (R) is false

C. Both (A) is true (R) are false

D. (A) is false (R) is true

Answer: A::B



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16. Assertion (A):HIV is a DNA virus.

Reason (R):HIV belongs to genus Lentivirus

A. Both (A) and (R) are true .(R) explains(A)

B. (A) is true (R) is false

C. Both (A) is true (R) are false

D. (A) is false (R) is true

Answer: A::D

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17. Secreton of HCl in stomach in an example for.....

- A. Anatomical barriers
- B. Phagocytic barriers
- C. Physiological barriers
- D. Inflammatory barriers

Answer: A::B::C

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18. Identify the incorrect statement

- A. Antibody Mediated Immunity was elicited by T cells
- B. It is a character of vertebrates only
- C. Immunoglobulins act against pathogens and kill them.
- D. It is also called humoral immunity

Answer: A::B::C::D

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19. Production process of blood cells in bone marrow is called.....



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20. Which of the following is not a feature of passive immunity?

- A. It is transient and less effective
- B. Immunological memory is present
- C. Immunity develops immediately
- D.

Answer: A::C



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21. Is a primary lymphoid organ of birds.



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22. Match the following

Match the following.

(a) Peyer's patches

(b) BALT

(c) Adenoid

(d) Thymus

i. trachea

ii. intestine

iii. heart

iv. roof of the mouth



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23. Which is not a granulocyte?

A. Lymphocytes

B. Neutrophils

C. Basophils

D. Eosinophils

Answer: C



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24. The L and H chains of immunoglobulin are joined by.....

A. Hydrogen bonds

B. Disulphide bonds

C. Phosphodiester bonds

D. Ionic bond

Answer: B::D

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25.type of Immunoglobulin is involved in allergic reactions

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26. Identify the wrong statement.

- A. Vaccine provide passive acquired immunity
- B. It is made from attenuated or killed microbes.
- C. Vaccines teach our body how to defend from microbes
- D. MMR is a first generation vaccine.

Answer: A::C::D



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27.developed first vaccine for small pox.



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28. The enzyme attached to RNA of HIV is.....

- A. RNA polymerase
- B. Reverse transcriptase
- C. Primase
- D. Endonuclease

Answer: A::C



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29. Infection of Ascariasis occur due to

A. Snad fly

B. Contaminated food

C. Mosquito bite

D. Stangnat water

Answer: A::C::D



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30. Which of the following statement (S) is true regarding cancer cells?

(a) Neoplasm or tumor cells show uncontrolled growth

(b) They are metastatic

(c) They lack contact inhibition

(d) They may be benign or malignant.

A. (a) only

B. (b) and (C)

C. (d) only

D. all the above

Answer: A::B::C::D



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31. Study dealing with body's defence mechanism against disease is called.....

- A. Pathology
- B. Immunology
- C. Microbiology
- D. Dermatology

Answer:

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32. AIDS is characterized by sharp reduction in number of.....

A. Helper T cells

B. Killer T cells

C. Superior T cells

D. B-Cells

Answer: C



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33. Plague and malaria are caused by.....andrepectively.

A. Bacteria and virus

B. Fungi and protozoa

C. Bacteria and protozoan

D. Fungi and bacteria

Answer: A::B::C::D

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34. A pair of fungal disease.....

- A. Amoebiasis,kala-azar
- B. Candidiasis,Athlete's foot
- C. Ascariasis,Filariasis
- D. Poliomyelitis ,Amoebiasis

Answer: A::B::C::D

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35. Plant source of Heroin is.....

- A. Poppy plants
- B. Cannabis plants
- C. Datura species
- D. Atropa species

Answer: A

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36. The test that confirms HIV positive is...

- A. Western blot

B. Northern blot

C. Southern blot

D. All the above

Answer: B



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37. Bacillary dysentery is caused due to.....

A. Salmonella

B. Shigella

C. Clostridium

D. Yersinia

Answer:



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38. Cocaine is apotent

A. Sedative

B. Hallucinogen

C. Pain reliever

D. Neurotransmitter

Answer: A::B::C::D



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39. Alkaloid found in tobacco is.....

A. Atropine

B. Cocaine

C. heroin

D. nicotine

Answer: C

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40. is a chronic memory disorder due to alcohol misuse.

A. Cushing's syndrome

B. Turners' syndrome

C. Klinefelters' syndrome

D. Korsakoff syndrome

Answer: A::D

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Additional Questions 2 Mark Questions

1. What steps should be taken to maintain good health?

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2. Define Disease.

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3. According to the WHO,What is health?

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4. Differentiate between infectious and non-infections disease

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5. Give an account on helminthic disease.



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6. Mention the causative organism of the following

(a)Tetanus (b)Bubonic plague (C)pneumonia (d)Cholera



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7. Clssify viral disease based on the organ of infection



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8. Write the symptoms of Hepatitis-B.



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9. Name the different species of malarial parasites and also mention which is the fatal one?

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10. Name the phases in the life cycle of Plasmodium .

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11. Name the phases in the life cycle of Plasmodium .

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12. What cause shivering in malarial patient?



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13. Malaria Eradication programme launched by WHO is a failure. Why?



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14. Filarial worm and Plasmodium are digenic parasites. Man is a common host for both parasites. Name the other host.



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15. Name the causative organism of filariasis and mention the site of infection of parasite.

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16. What do you mean by the term personal hygiene?

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17. Define Immunity and Susceptibility.

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18. How skin and mucus membrane act as barriers for infections?

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19. What is diapodesis ?



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20. Write any two differences between CMI and AMI



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21. Define haematopoiesis.



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22. Which is the primary lymphoid organs of birds? Mention its location and role.

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23. What are primary lymphoid organs?

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24. What are Peyer's patches.

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25. Point out any four peripheral lymphoid organs.

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26. Write a brief note of GALT.



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27. Why secondary immune response is more effective than primary immune response?



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28. Name the Agranulocytes involved in immune response.



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29. Why dendritic cells are called so?



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30. How many dendritic cells are identified? Name them.



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31. What are Haptens?



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32. Distinguish between Epitope and Paratope.



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33. Draw and label the structure of Immunoglobulin.

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34. How are antibiotics classified ?

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35. Name any four functions of antibodies.

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36. Which type of bonds are developed between an antigen and antibody? Name them.



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37. Define antibody affinity.



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38. What do you mean by third generation vaccine?



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39. Define vaccination



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40. Define allergy and allergen.



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41. What is Anaphylaxis?



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42. Expand (a) MALT (b)NACO



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43. What is drug abuse ?



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44. What is drug abuse ?

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45. Name any 4 natural cannabinoids.

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46. Mention any two drugs to treat insomnia patient.

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47. Name the antibody responsible for allergic reaction. Also mention two chemicals released during allergic response.

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48. Name an opioid drug and its source and its source plant. How is it useful in the medical field?

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49. Some drugs when taken for a long time cause addiction.

a. What is withdrawal symptom?

b. How can you prevent the addiction?

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50. Name the plant source of Cocaine and Heroin.

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51. Define:-

Liver cirrhosis

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52. What is korsakoff syndrome ?

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53. What are the benefits of regular exercise?

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Additional Questions 3 Mark Questions

1. Write the name of causative agent, infection site, mode of transmission and any two symptoms of Chikungunya.

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2. Draw and label the parts of *Entamoeba histolytica*.

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3. Give a brief account of Kala-azar.



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4. Comment on Malaria vaccine



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5. What is innate immunity?



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6. Explain (a) Cell Mediated Immunity (B) Antibody Mediated Immunity



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7. Why secondary immune response is more effective than primary immune response?



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8. What are lymphoid organs?Mention its types.



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9. Classify antigens based on origin.



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10. Point out the factors that determine the binding force between antigen-antibody reactions.

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11. Why it is important to study antigen-antibody interaction?

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12. Explain the opsonisation property of antibodies.

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13. Give an example for (a) First generation vaccine
(b) Second generation vaccine (C) Third generation vaccine

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14. Name the diseases for which vaccines were developed by Louis Pasteur.

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15. How AIDS patient fail to develop immunity?

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16. Mention the methods used to treat AIDS patients.



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17. State immunological surveillance theory.



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18. What is contact inhibition? How it is related to tumours growth?



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19. Give the differences between normal cells and cancer cells.

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20. Write a note on Heroin.

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21. "Smoking and Tobacco chewing is injurious to health" -
Comment on the statement.

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22. List the signs and symptoms of mental depression.

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Additional Questions 5 Mark Questions

1. List any five viral diseases , their casuative agents , site of infection , mode of transmission and symptoms

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2. Name the phases in the life cycle of Plasmodium .

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3. Give an account on helminthic disease.



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4. (b) Tabulate the types of innate immunity and their action mechanism.



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5. Point out the differences between active and passive immunity.



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6. Why secondary immune response is more effective than primary immune response?

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7. Explain the structure and role of thymus in primary lymphoid organ.

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8. Describe the structure of lymph node with a labelled diagram.

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9. What are the cells involved innate immune system ?

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10. Write in detail about various types of antigen- antibody reactions

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11. Describe the structure of HIV with a diagram.

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12. Mention any two measures for prevention and control of alcohol and drug abuse among adolescents.

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Additional Questions Higher Order Thinking Skills Hot Questions

1. Identify the mismatched pair and give reason.

(a) Plague-*Yersinia pestis*

(b) Filariasis-*Wuchereria bancrofti*

(c) Dermatomycosis-*Trypanosoma gambiense*

(d) Common cold -Rhino virus

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2. In which form does the malarial parasite enter the human body through mosquito? What is the target site of parasite immediately after entering the host body?

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3. A boy of ten years had suffered from chicken-pox. His grand mother consoled him that he is not expected to have it for rest of his life. Whether his grandmother is right? If so how it happens?

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