

BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

Human health and diseases

Text Evaluation Solved

1. A 30 year old woman has bleedy 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 entritidis **Answer: Watch Video Solution** 2. Exo-erythrocytic schizogony of Plasmodium takes place A. RBC **B.** Leucocytes C. Stomach D. Liver

Answer: Watch Video Solution 3. The sporozoites of Plasmodium vivax are formed from A. Gametocytes **B.** Sporoblasts C. Oocysts D. Spores **Answer: Watch Video Solution**

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

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

Answer:



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-Psychotopic
 - 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:



9. Where do the following events in the life cycle of									
Plasmodium takes place ?									
A. Ferilization									
B. Development of gametocytes									
C. Release of sporozoites									
D. Schizogony									
Answer:									



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: Watch Video Solution**

11. Allergy involves

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

D.	IgM
	.0

Answer:



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- 12. Spread of cancerous cells to distant sitesis termed as
 - A. Metastasis
 - **B.** Oncogenes
 - C. Proto-oncogenes
 - D. Malignant neoplasm

Answer:



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

13. AIDS virus has

antibody re called

B. Basophils C. Plasma cells D. Killer cells Answer: **Watch Video Solution** 15. Give below are some human organs . Identify one primary and one secondary lymphoid organ. Explain its role . Liver, thymus, stomach, thyroid, tonsils. **Watch Video Solution**

A. Memory cells

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



17. What are interferons? Mention their role.



18. List out chemical alarm signals produced during inflammation.



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



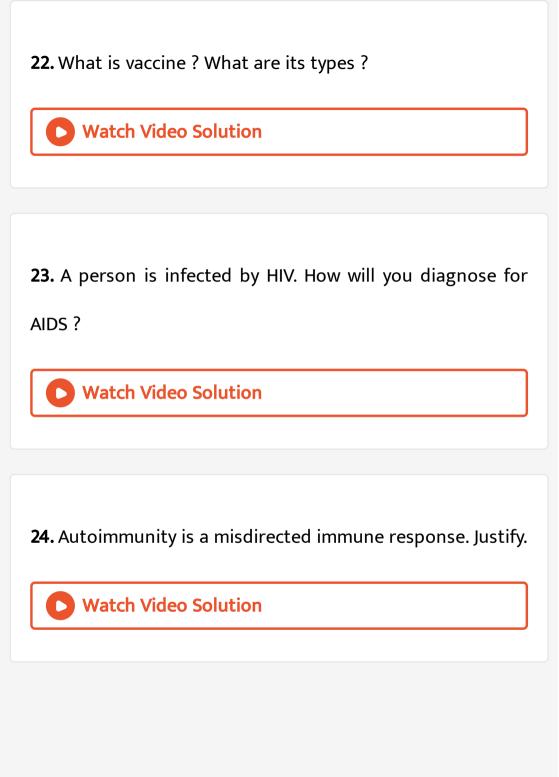
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20. Explain the structure of immunoglobulin with suitable diagram.



21. What are the cells involved innate immune system?





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. Merozoitees 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? **Watch Video Solution** 28. List the common withdrawal symptoms of drugs and alcohol abuse. **Watch Video Solution**
 - **29.** Why do you think it is not possible to produce vaccine against 'common cold '?



Additional Questions

1. Pick out the disease which is caused by viru	IS
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- 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

- (a) Bacillary dysentery
- (b) Black death
- (c) Enteric fever
- (d) Lock jaw

Causative organism

- i. Salmonella typhi
 - ii. Clostridium tetani
 - iii. Yersinia pestis
 - iv. Shigella specie**s**



4. Identify the mismatched pair

```
A. {:("Disease", "Infection site"), ("(a) Hepatitis", "Liver"):}`
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B. {:("Disease", "Infection site"), ("(b) Poliomyelitis", "Brain and spinal cord"):}`
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C. {:("Disease","Infection site"),("(c)Measles","Intestine"):}`

D. {:("Disease","Infection site"),("(d)Mumps","Salivary gland"):}`

Answer: A::C



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 **Watch Video Solution**

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

A. Neurotopic

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-Home fly
 - B. (b)African sleeping sickness-Tsetse flies
 - C. (c)Kala-azar -Sand fly
 - D. (d) Malaria-female anopheles mosquito

Answer: A::D



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:



10. Incubation period for malaria ____



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11. match the following

A. $\frac{\text{Malarial types}}{\text{(a)Vivax malaria}}$ Duration of erythrocytic cycle $\frac{\text{(i)}}{\text{72 hours}}$

В.

Malarial types Duration of erythrocytic cycle
(a) Quartan malaria (i) 36-18 hours

C.

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

D.

Malarial types Duration of erythrocytic cycle (a)malignant malaria (i)2days

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



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12. Assertion (A):Plasmodium vivax is a digenuc 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 flase
- 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 flase

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

Answer: A::B::D



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 flase
- 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 flase

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

Answer: A::D



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17. Secrection of HCI in stomach in an example for.....

A. Anatomical barriers

B. Phagocytic barriers

C. Physiological barriers

D. Inflammatory barriers

Answer: A::B::C



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........

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

A. It is transient and less effective

B. Imunological memory is present

C. Immunity develops immediately

D.

Answer: A::C



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 immunogobulin are joined by......
 - A. Hydrogen bonds
 - B. Disuphide bonds
 - C. Phosphodiester bonds
 - D. Ionic bond

Answer: B::D

25.type of Immunoglobulin is involed 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 **Watch Video Solution** 27.developed first vaccine for small pox. **Watch Video Solution** 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



30. Which of the following statemeth (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



31. Study dealing with body's defence mechanism against
disease is called
A. Pathology
B. Immunology
C. Microbiology
D. Dermatology
Answer:
Watch Video Solution
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 Watch Video Solution** 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



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. Northen blot
C. Southern blot

D. All the above

Answer: B



- **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



39. Alkaloid found in tabacco 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



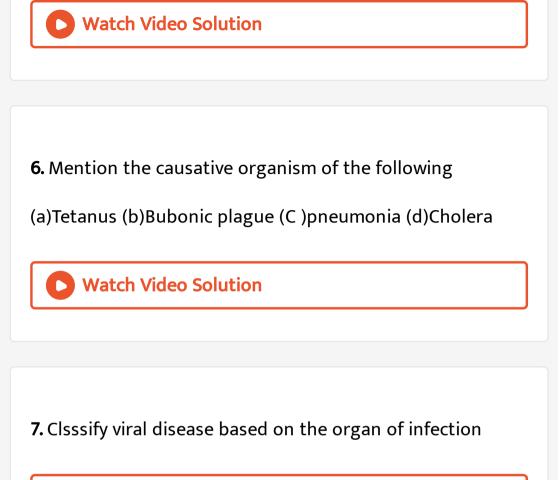
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Additional Questions 2 Mark Questions

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



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. Givean an account on helminthic disease.





8. Write the symptoms of Hepatitis-B.



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.



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



12. What cause shivering in malarial patient?



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



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



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



18. How skin and mucus membrane act as barriers for

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

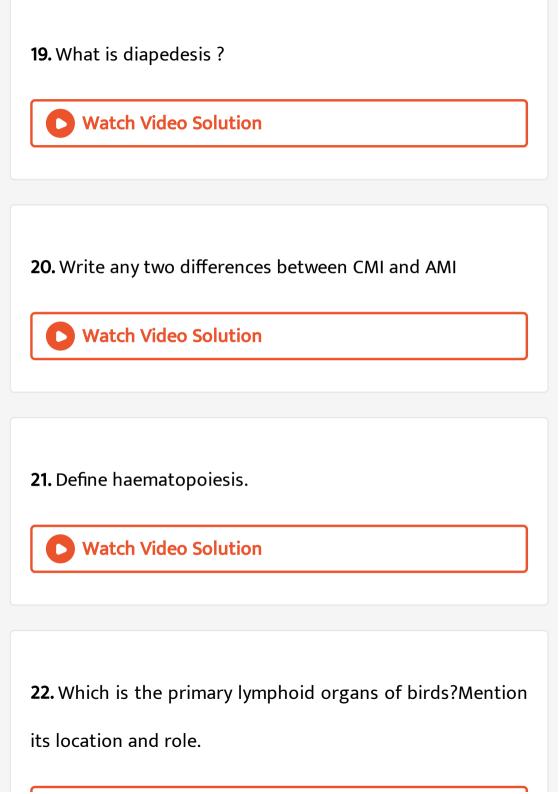
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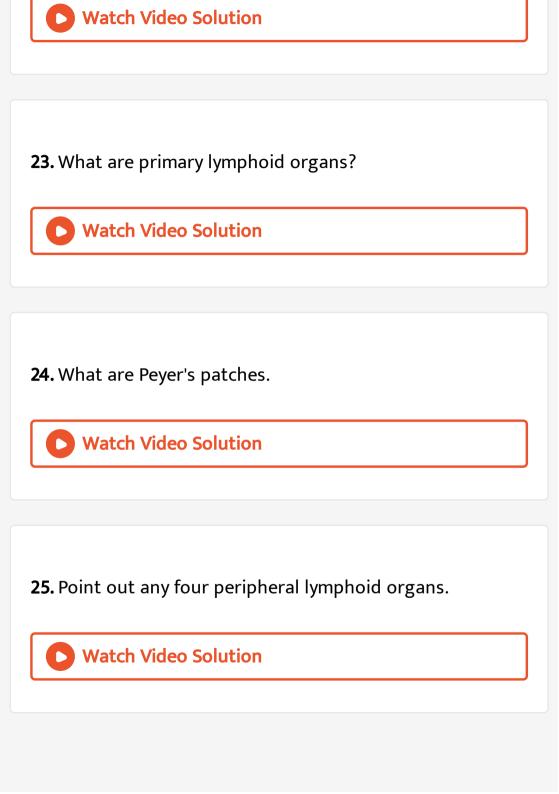
17. Define Immunity and Susceptibility.

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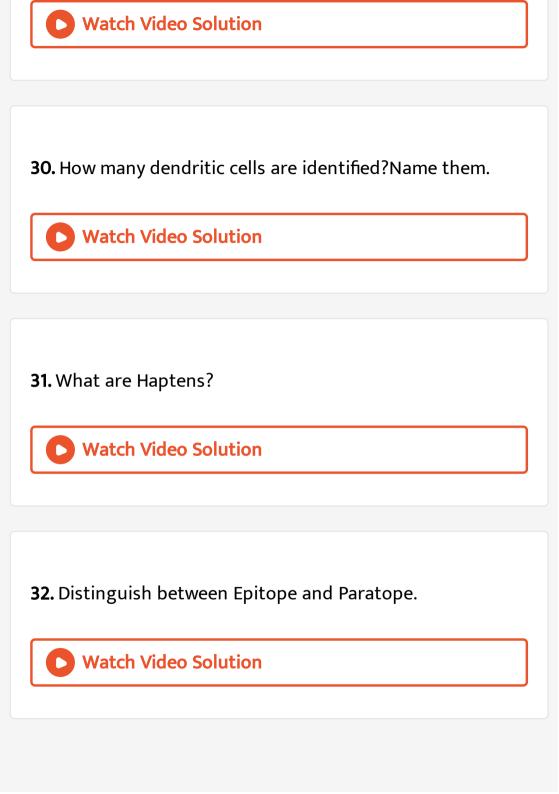
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infections?

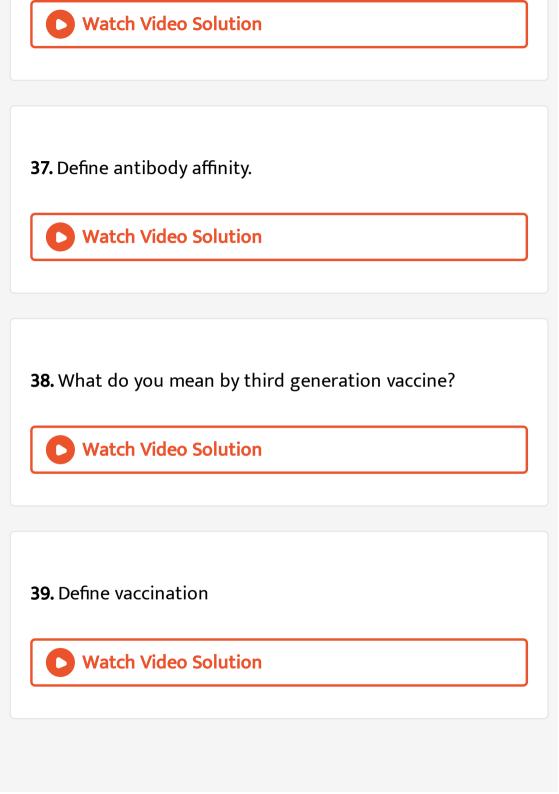


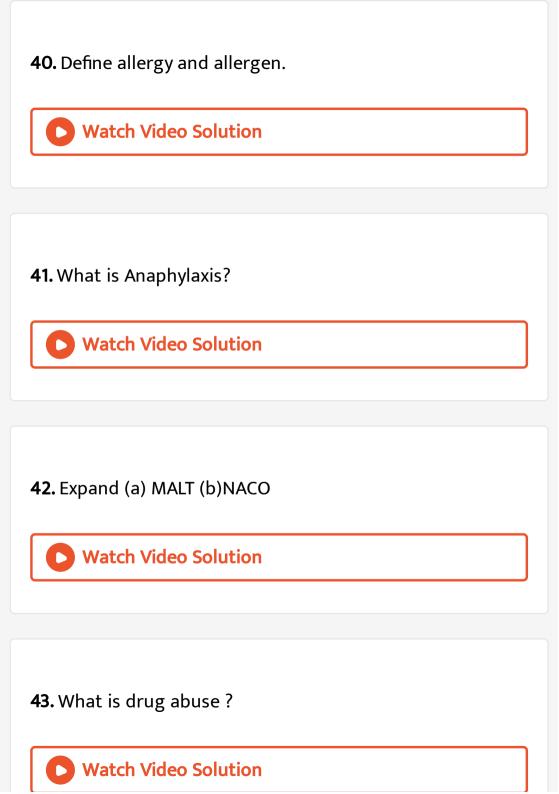


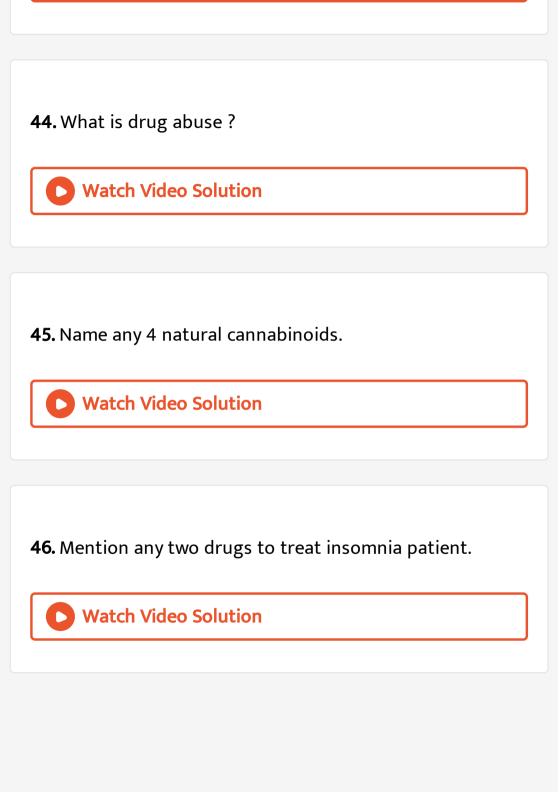
26. Write a brief note of GALT. **Watch Video Solution** 27. Why secondary immune response is more effective than primary immune response? **Watch Video Solution** 28. Name the Agranulocytes involved in immune response. **Watch Video Solution 29.** Why dendritic cells are called so?



33. Draw and label the structure of Immunoglobulin. **Watch Video Solution 34.** How are antibiotics classified? **Watch Video Solution** 35. Name any four functions of antibodies. **Watch Video Solution 36.** Which type of bonds are developed between an antigen and antibody? Name them.







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 it is useful in 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?



50. Name the plant source of Cocaine and Heroin. **Watch Video Solution 51.** Define:-Liver cirrhosis **Watch Video Solution 52.** What is korsakoff syndrome? **Watch Video Solution**

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.



2. Draw and label the parts of Entamoeba histolytica.



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?
Watch Video Solution
8. What are lymphoid organs? Mention its types.

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9. Classify antigens based on origin.

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



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



12. Explain the opsonisation property of antibodies.



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.



15. How AIDS patient fail to develop immunity?



16. Mention the methods used to treat AIDS patients. **Watch Video Solution** 17. State immunological surveillance theory. **Watch Video Solution** 18. What is contact inhibition? How it is related to tumours growth? **Watch Video Solution**

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.



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



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



3. Givean an account on helminthic disease.



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



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



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



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



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



9. What are the cells involved innate immune system?
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10. Write in detail about various types of antigen- antibody
reactions
Watch Video Solution
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 Hots 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



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

