

CHAPTER 5

Human Health and Diseases

Common Disease in Humans

1. Match the following:

(2021)

List-I	List-II
(A) Filariasis	(i) <i>Haemophilus influenzae</i>
(B) Amoebiasis	(ii) <i>Trichophyton</i>
(C) Pneumonia	(iii) <i>Wuchereria bancrofti</i>
(D) Ringworm	(iv) <i>Entamoeba histolytica</i>

Choose the correct answer from the options given below.

- A-iii B-iv C-i D-ii
- A-i B-ii C-iv D-iii
- A-ii B-iii C-i D-iv
- A-iv B-i C-iii D-ii

2. Match the following diseases with the causative organism and select the correct option. (2020)

Column - I	Column - II
1. Typhoid	(i) <i>Wuchereria</i>
2. Pneumonia	(ii) <i>Plasmodium</i>
3. Filariasis	(iii) <i>Salmonella</i>
4. Malaria	(iv) <i>Haemophilus</i>

- (iii) (iv) (i) (ii)
- (ii) (i) (iii) (iv)
- (iv) (i) (ii) (iii)
- (i) (iii) (ii) (iv)

3. The infectious stage of *Plasmodium* that enters the human body is: (2020)

- Sporozoites
- Female gametocytes
- Male gametocytes
- Trophozoites

4. Match the following columns and select the correct option: (2020-Covid)

Column-I	Column-II
1. Typhoid	(i) <i>Haemophilus influenzae</i>
2. Malaria	(ii) <i>Wuchereria bancrofti</i>
3. Pneumonia	(iii) <i>Plasmodium vivax</i>
4. Filariasis	(iv) <i>Salmonella typhi</i>

- (1) (2) (3) (4)
- (iii) (iv) (ii) (i)
- (i) (iii) (ii) (iv)
- (i) (ii) (iv) (iii)
- (iv) (iii) (i) (ii)

5. Identify the correct pair representing the causative agent of typhoid fever and the confirmatory test for typhoid. (2019)

- Plasmodium vivax* / UTI test
- Streptococcus pneumoniae* / Widal test
- Salmonella typhi* / Anthrone test
- Salmonella typhi* / Widal test

6. In which disease does mosquito transmitted pathogen cause chronic inflammation of lymphatic vessels? (2018)

- Elephantiasis
- Ascariasis
- Ringworm disease
- Amoebiasis

7. Which of the following is not an autoimmune disease? (2018)

- Psoriasis
- Rheumatoid arthritis
- Alzheimer's disease
- Vitiligo

8. Which of the following sets of diseases is caused by bacteria? (2016 - II)

- Tetanus and mumps
- Herpes and influenza
- Cholera and tetanus
- Typhoid and smallpox

9. The organisms which cause diseases in plants and animals are called: (2016 - I)

- Pathogens
- Vectors
- Insects
- Worms

10. Which of the following viruses is not transferred through semen of an infected male? (2015)

- Chikungunya virus
- Ebola virus
- Hepatitis B virus
- Human immunodeficiency virus

11. Match each disease with its correct type of vaccine: (2015)

- Tuberculosis (i) Harmless virus
- Whooping cough (ii) Inactivated toxin
- Diphtheria (iii) Killed bacteria
- Polio (iv) Harmless bacteria



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

12. The active form of *Entamoeba histolytica* feeds upon: (2015)

- a. Food in intestine
- b. Blood only
- c. Erythrocytes; mucosa and submucosa of colon
- d. Mucosa and submucosa of colon only

13. Which of the following diseases is caused by a protozoan? (2015 Re)

- a. Influenza
- b. Babesiosis
- c. Blastomycosis
- d. Syphilis

14. Infection of *Ascaris* usually occurs by: (2013)

- a. Mosquito bite
- b. Drinking water containing eggs of *Ascaris*
- c. Eating imperfectly cooked port
- d. Tse-tse fly

Immunity

15. Select the incorrect statement with respect to acquired immunity. (2022)

- a. Acquired immunity is non-specific type of defense present at the time of birth
- b. Primary response is produced when our body encounters a pathogen for the first time.
- c. Anamnestic response is elicited on subsequent encounters with the same pathogen.
- d. Anamnestic response is due to memory of first encounter.

16. Given below are two statements: (2022)

Statement I: Autoimmune disorder is a condition where body defense mechanism recognizes its own cells as foreign bodies.

Statement II: Rheumatoid arthritis is a condition where body does not attack self cells.

In the light of the above statements, choose the most appropriate answer from the options given below.

- a. Statement I is incorrect but Statement II is correct
- b. Both Statement I and Statement II are correct
- c. Both statement I and statement II are incorrect
- d. Statement I is correct but Statement II is incorrect

17. Identify the wrong statement with reference to immunity. (2020)

- a. When ready-made antibodies are directly given, it is called "Passive immunity".
- b. Active immunity is quick and gives full response.
- c. Foetus receives some antibodies from mother, it is an example for passive immunity.
- d. When exposed to antigen (living or dead) antibodies are produced in the host's body. It is called "Active immunity".

18. The yellowish fluid "colostrum" secreted by mammary glands of mother during the initial days of lactation has abundant antibodies (IgA) to protect the infant. This type of immunity is called as: (2020-Covid)

- a. Active immunity
- b. Acquired immunity
- c. Autoimmunity
- d. Passive immunity

19. Colostrum, the yellowish fluid, secreted by mother during the initial days of lactation is very essential to impart immunity to the new born infants because it contains (2019)

- a. Natural killer cells
- b. Monocytes
- c. Macrophages
- d. Immunoglobulin A

20. Which of the following immune responses is responsible for rejection of kidney graft? (2019)

- a. Auto-immune response
- b. Humoral immune response
- c. Inflammatory immune response
- d. Cell-mediated immune response

21. MALT constitutes about _____ percent of the lymphoid tissue in human body. (2017-Delhi)

- a. 50%
- b. 20%
- c. 70%
- d. 10%

22. Transplantation of tissues/organs fails often due to non-acceptance by the patient's body. Which type of immune-response is responsible for such rejections? (2017-Delhi)

- a. Autoimmune response
- b. Cell-mediated immune response
- c. Hormonal immune response
- d. Physiological immune response

23. Antivenom injection contains preformed antibodies while polio drops that are administered into the body contain: (2016 - I)

- a. Activated pathogens
- b. Harvested antibodies
- c. Gamma globulin
- d. Attenuated pathogens

24. 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: (2016 - I)

- a. Allergic response
- b. Graft rejection
- c. Auto-immune disease
- d. Active immunity

25. Grafted kidney may be rejected in a patient due to: (2015 Re)

- a. Cell-mediated immune response
- b. Passive immune response
- c. Innate immune response
- d. Humoral immune response

26. Which of the following immunoglobulins does constitute the largest percentage in human milk? (2015 Re)

- a. IgM
- b. IgA
- c. IgG
- d. IgD

27. The cell-mediated immunity inside the human body is carried out by: (2013)

- a. Erythrocytes
- b. T-lymphocytes
- c. B-lymphocytes
- d. Thrombocytes

AIDS

28. Which of the following is correct regarding AIDS causative agent HIV? (2016 - II)
- HIV is undeveloped retrovirus.
 - HIV does not escape but attacks the acquired immune response.
 - HIV is enveloped virus containing one molecule of single-stranded RNA and one molecule of reverse transcriptase.
 - HIV is enveloped virus that contains two identical molecules of single-stranded RNA and two molecules of reverse transcriptase.
29. HIV that causes AIDS, first starts destroying: (2015)
- Helper T - Lymphocytes
 - Thrombocytes
 - B - Lymphocytes
 - Leucocytes
30. At which stage of HIV infection does one usually show symptoms of AIDS? (2014)
- When the viral DNA is produced by reverse transcriptase
 - Within 15 days of sexual contact with an infected person
 - When the infected retro virus enters host cells
 - When HIV damages large number of helper T-lymphocytes

- Mutations in proto-oncogenes accelerate the cell cycle
- Mutations destroy telomerase inhibitor
- Mutations inactivate the cell control
- Mutations inhibit production of telomerase

Drugs & Alcohol Abuse

32. Drug called 'Heroin' is synthesised by (2019)
- Methylation of morphine
 - Acetylation of morphine
 - Glycosylation of morphine
 - Nitration of morphine
33. Which part of poppy plant is used to obtain the drug "Smack"? (2018)
- Flowers
 - Latex
 - Roots
 - Leaves
34. Which is the particular type of drug that is obtained from the plant whose one flowering branch is shown below? (2014)

**Cancer**

31. Which of the following statements is not true for cancer cells in relation to mutations? (2016 - I)
- Pain-killer
 - Hallucinogen
 - Depressant
 - Stimulant

Answer Key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
a	a	a	d	d	a	c	c	a	a	a	c	b	b	a	d	b
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
d	d	d	a	b	d	c	a	b	b	d	a	d	d	b	b	b