

Q1. Which of the following is correctly matched with its causative organism?

- A. Typhoid – *Salmonella typhi*
- B. Malaria – *Entamoeba histolytica*
- C. Pneumonia – *Plasmodium vivax*
- D. Amoebiasis – *Trichophyton*

Answer: A

Explanation:

Typhoid is caused by *Salmonella typhi*.

Malaria – *Plasmodium*, Pneumonia – *Streptococcus pneumoniae* or *Haemophilus influenzae*, Amoebiasis – *Entamoeba histolytica*.

Q2. Which one of the following diseases is not caused by a virus?

- A. Influenza
- B. Dengue
- C. Typhoid
- D. AIDS

Answer: C

Explanation: Typhoid is a bacterial disease caused by *Salmonella typhi*.

Q3. Malarial parasite is introduced into the human body by:

- A. Female *Anopheles* mosquito
- B. Male *Culex* mosquito
- C. Female *Culex* mosquito
- D. Male *Anopheles* mosquito

Answer: A

Explanation: The female *Anopheles* mosquito transmits *Plasmodium* while feeding on blood.

Q4. Which among the following is a fungal disease?

- A. Ringworm

- B. Tuberculosis
- C. Typhoid
- D. Pneumonia

Answer: A

Explanation: Ringworm is caused by dermatophytic fungi like Trichophyton.

Q5. Which of the following is NOT a lymphoid organ?

- A. Spleen
- B. Liver
- C. Tonsils
- D. Thymus

Answer: B

Explanation: Liver is not a lymphoid organ. Others participate in immunity.

Q6. Match the following:

Column I (Disease)	Column II (Causative agent)
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- |               |                          |
|---------------|--------------------------|
| A. Malaria    | 1. Plasmodium vivax      |
| B. Typhoid    | 2. Salmonella typhi      |
| C. Ringworm   | 3. Microsporum           |
| D. Amoebiasis | 4. Entamoeba histolytica |

- A. A-1, B-2, C-3, D-4
- B. A-2, B-1, C-3, D-4
- C. A-1, B-2, C-4, D-3
- D. A-4, B-2, C-3, D-1

Answer: A

Explanation: Matching is correct per causative organisms.

Q7. Assertion (A): B cells produce antibodies.

Reason (R): B cells mature in the bone marrow.

- A. Both A and R are true, and R is the correct explanation of A
- B. Both A and R are true, but R is not the correct explanation
- C. A is true, R is false
- D. Both A and R are false

Answer: A

Explanation: B cells mature in bone marrow and are responsible for antibody production.

Q8. Which of the following provides passive immunity?

- A. Vaccination
- B. Antiserum
- C. Attenuated microbes
- D. Toxoid

Answer: B

Explanation: Passive immunity is given directly via ready-made antibodies (e.g., antiserum).

Q9. Which of the following cells are involved in the cell-mediated immune response?

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

Answer: C

Explanation: Cytotoxic T cells kill virus-infected and tumor cells.

Q10. Which of the following immunoglobulins is present in colostrum?

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

Answer: A

Explanation: IgA is the main antibody in colostrum, providing passive immunity to infants.

Q11. Which one of the following pairs is correctly matched?

- A. Asthma – Inflammation of the kidney
- B. AIDS – Destruction of helper T cells
- C. Ringworm – Viral infection of skin
- D. Cancer – Uncontrolled death of body cells

Answer: B

Explanation: AIDS is caused by HIV, which destroys helper T cells, weakening immunity.

Q12. Which vaccine is given to children soon after birth?

- A. BCG
- B. Polio
- C. Hepatitis B
- D. All of the above

Answer: D

Explanation: These are part of the newborn vaccination schedule in India.

Q13. Which of the following is used in cancer immunotherapy?

- A. Monoclonal antibodies
- B. Antibiotics
- C. Antigens
- D. Interferons only

Answer: A

Explanation: Monoclonal antibodies target specific antigens on cancer cells.

Q14. Which cells help in allergic reactions by releasing histamine?

- A. Neutrophils
- B. Basophils and mast cells
- C. Lymphocytes
- D. Monocytes

Answer: B

Explanation: Mast cells and basophils release histamine causing allergy symptoms.

Q15. A person with a weakened immune system is most susceptible to:

- A. Autoimmune diseases
- B. Opportunistic infections
- C. Genetic disorders
- D. Allergies

Answer: B

Explanation: Immunocompromised individuals are vulnerable to opportunistic infections.

Q16. Which one of the following diseases is not transmitted by a mosquito?

- A. Malaria
- B. Dengue
- C. Filariasis
- D. Typhoid

Answer: D

Explanation: Typhoid is transmitted through contaminated food and water, not by mosquitoes.

Q17. Antibodies are:

- A. Lipids secreted by T cells
- B. Proteins produced by plasma cells
- C. Enzymes that digest pathogens
- D. Hormones released during stress

Answer: B

Explanation: Plasma cells (derived from B lymphocytes) produce protein-based antibodies.

Q18. Which of the following is not a symptom of ascariasis?

- A. Intestinal blockage
- B. Anaemia

- C. Vomiting
- D. Skin blisters

Answer: D

Explanation: Ascariasis typically causes digestive symptoms but not skin blisters.

Q19. The 'booster dose' of a vaccine is given to:

- A. Cure an existing disease
- B. Increase the memory response of immune system
- C. Suppress allergic reaction
- D. Induce passive immunity

Answer: B

Explanation: Booster doses help sustain a strong immune memory against the antigen.

Q20. Match the following:

Column I (Disease)	Column II (Symptoms)
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- |               |  |
|---------------|--|
| A. Filariasis | 1. Chronic inflammation of lymph nodes |
| B. Typhoid    | 2. High fever and intestinal ulcers    |
| C. Ringworm   | 3. Dry scaly skin lesions              |
| D. Malaria    | 4. Recurrent chills and fever          |

- A. A-1, B-2, C-3, D-4
- B. A-2, B-3, C-1, D-4
- C. A-3, B-1, C-4, D-2
- D. A-1, B-4, C-2, D-3

Answer: A

Explanation: Matches correctly with disease-specific symptoms.

Q21. Assertion (A): Allergies are due to hypersensitive immune responses.

Reason (R): Mast cells release histamine and serotonin during allergic reactions.

- A. Both A and R are true, and R is the correct explanation

- B. Both A and R are true, but R is not the correct explanation
- C. A is true, R is false
- D. Both A and R are false

Answer: A

Explanation: Mast cells release histamine causing allergy, explaining hypersensitivity.

Q22. The pathogen responsible for causing malaria undergoes sexual reproduction in:

- A. Human liver
- B. Human RBC
- C. Salivary gland of mosquito
- D. Gut of mosquito

Answer: D

Explanation: Sexual reproduction of Plasmodium occurs in the female Anopheles mosquito's gut.

Q23. Which type of cancer originates from connective tissue?

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

Answer: B

Explanation: Sarcomas are malignant tumors of connective tissues like bone, muscle, fat.

Q24. Which of the following is not a characteristic of innate immunity?

- A. Non-specific defense
- B. Present from birth
- C. Provides long-term memory
- D. First line of defense

Answer: C

Explanation: Long-term memory is a feature of acquired immunity, not innate.

Q25. The incubation period for Plasmodium vivax is:

- A. 7–10 days
- B. 10–14 days
- C. 2–3 days
- D. 14–21 days

Answer: B

Explanation: After a mosquito bite, it takes about 10–14 days for symptoms to appear.

Q26. Which of the following pairs is correctly matched?

- A. AIDS – Vector-borne disease
- B. Pneumonia – Droplet infection
- C. Typhoid – Sexual contact
- D. Dengue – Contaminated water

Answer: B

Explanation: Pneumonia spreads through droplets. AIDS is not vector-borne.

Q27. The process of cancerous cells spreading to distant parts of the body is called:

- A. Oncogenesis
- B. Metastasis
- C. Mutation
- D. Differentiation

Answer: B

Explanation: Metastasis is the migration of malignant cells to new tissues via blood/lymph.

Q28. BCG vaccine is given for protection against:

- A. Typhoid
- B. Tuberculosis
- C. Tetanus
- D. Diphtheria

Answer: B



Explanation: BCG (Bacillus Calmette–Guérin) is for TB.

Q29. Which of the following immunoglobulins is most abundant in human serum?

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

Answer: D

Explanation: IgG is the most abundant in plasma and confers long-term immunity.

Q30. Assertion (A): Antibiotics are effective only against bacterial infections.

Reason (R): Antibiotics block bacterial metabolic pathways.

- A. Both A and R are true, and R is the correct explanation
- B. Both A and R are true, but R is not the correct explanation
- C. A is true, R is false
- D. Both A and R are false

Answer: A

Explanation: Antibiotics inhibit key bacterial enzymes or cell wall synthesis, not viruses.

Q31. Which of the following is a secondary lymphoid organ?

- A. Bone marrow
- B. Thymus
- C. Spleen
- D. Yolk sac

Answer: C

Explanation: Spleen is a secondary lymphoid organ where lymphocytes interact with antigens.

Q32. Which cells are responsible for mediating cell-mediated immunity?

- A. B lymphocytes
- B. T lymphocytes

- C. Neutrophils
- D. Macrophages

Answer: B

Explanation: T cells (especially cytotoxic T cells) mediate cell-mediated immune responses.

Q33. Which of the following acts as an antipyretic and analgesic?

- A. Aspirin
- B. Chloramphenicol
- C. Morphine
- D. Streptomycin

Answer: A

Explanation: Aspirin reduces fever (antipyretic) and pain (analgesic).

Q34. Which of the following diseases is caused by *Wuchereria bancrofti*?

- A. Ascariasis
- B. Filariasis
- C. Ringworm
- D. Schistosomiasis

Answer: B

Explanation: *Wuchereria bancrofti* causes lymphatic filariasis, also known as elephantiasis.

Q35. Match the following:

Column I (Drug Type)    Column II (Example)

- |                 |                   |
|-----------------|-------------------|
| A. Stimulant    | 1. Cocaine        |
| B. Sedative     | 2. Benzodiazepine |
| C. Hallucinogen | 3. LSD            |
| D. Opiate       | 4. Heroin         |

A. A–1, B–2, C–3, D–4

- B. A-2, B-1, C-3, D-4
- C. A-3, B-4, C-2, D-1
- D. A-4, B-2, C-1, D-3

Answer: A

Explanation: Correct pairings based on drug type and example.

Q36. Assertion (A): Vaccination is a form of active immunity.

Reason (R): It involves the administration of antibodies directly into the body.

- A. Both A and R are true, and R is the correct explanation
- B. Both A and R are true, but R is not the correct explanation
- C. A is true, R is false
- D. Both A and R are false

Answer: C

Explanation: Vaccination involves stimulating the immune system to produce antibodies, not administering them directly.

Q37. Which of the following antibodies is present in colostrum and provides passive immunity to the newborn?

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

Answer: B

Explanation: IgA is abundant in colostrum and provides localized immunity to the infant.

Q38. ELISA is used to detect:

- A. Cancer cells
- B. Malaria parasite
- C. HIV antibodies
- D. Typhoid pathogen

Answer: C

Explanation: ELISA is a test for detecting HIV infection through identification of antibodies.

Q39. Which of the following is not a feature of cancer cells?

- A. Metastasis
- B. Controlled mitosis
- C. Loss of contact inhibition
- D. Immortality in culture

Answer: B

Explanation: Cancer cells divide uncontrollably and do not respond to normal regulatory mechanisms.

Q40. Which of the following statements is correct?

- A. Morphine is a stimulant
- B. Cocaine is a hallucinogen
- C. Heroin is a depressant
- D. LSD is an analgesic

Answer: C

Explanation: Heroin is a depressant derived from opium.

Q41. Which of the following can be used to treat allergic conditions?

- A. Histamine
- B. Interferons
- C. Antihistamines
- D. Antibiotics

Answer: C

Explanation: Antihistamines block histamine receptors and relieve allergy symptoms.

Q42. Assertion (A): AIDS can spread through the sharing of needles.

Reason (R): HIV is a virus present in body fluids like blood and semen.

- A. Both A and R are true, and R is the correct explanation
- B. Both A and R are true, but R is not the correct explanation

- C. A is true, R is false
- D. Both A and R are false

Answer: A

Explanation: Sharing infected needles transmits HIV due to contaminated blood.

Q43. Which of the following disorders is fungal in origin?

- A. Filariasis
- B. Ringworm
- C. Pneumonia
- D. Typhoid

Answer: B

Explanation: Ringworm is caused by dermatophyte fungi such as Trichophyton.

Q44. The first symptoms of AIDS usually appear:

- A. Within 24 hours
- B. Within 3–4 days
- C. Within 6 months
- D. After several years

Answer: D

Explanation: HIV may remain asymptomatic for years before symptoms of AIDS develop.

Q45. Match the following:

Column I (Immune Response)    Column II (Description)

- |                     |                                      |
|---------------------|--------------------------------------|
| A. Active immunity  | 1. Long-lasting response             |
| B. Passive immunity | 2. Immediate but short-term response |
| C. Autoimmunity     | 3. Immune attack on self-antigens    |
| D. Allergy          | 4. Hypersensitive immune reaction    |

A. A–1, B–2, C–3, D–4

B. A–2, B–1, C–4, D–3

C. A-1, B-4, C-2, D-3

D. A-3, B-2, C-1, D-4

Answer: A

Explanation: Each immune concept correctly matches its feature.