

Lakshya NEET 2025

Human Health and Diseases

TAPASYA

1. Identify the **correct** pair representing the causative agent of typhoid fever and the confirmatory test for typhoid. **Final NEET (UG)-2019**

- (1) *Plasmodium vivax*/UTI test.
- (2) *Streptococcus pneumoniae*/Widal test
- (3) *Salmonella typhi*/Anthrone test
- (4) *Salmonella typhi*/Widal test

2. Match the following diseases with the causative organism and select the **correct** option. **Final NEET (UG)-2020**

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

3. Match List-I with List-II. **Final NEET (UG)-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.

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

4. Given below are two statements:

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Statement 1: 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:

- (1) are correct Statement II and Statement I Both
- (2) Both Statement I and-Statement II are incorrect
- (3) is incorrect Statement II is correct but Statement I
- (4) Statement I is incorrect but Statement II is correct

5. Select the **incorrect** statement with respect to acquired immunity. **Final NEET (UG)-2021**

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

6. Match List I with List II. **Final NEET (UG)-2022**

List I	List II
A. Ringworm	I. <i>Haemophilus influenzae</i>
B. Filariasis	II. <i>Trichophyton</i>
C. Malaria	III. <i>Wuchereria bancrofti</i>
D. Pneumonia	IV. <i>Plasmodium vivax</i>

Choose the **correct** answer from the options given below:

- (1) A-III, B-II, C-I, D-IV
- (2) A-III B-II C-IV, D-I
- (3) A-II, B-III, C-IV, D-I
- (4) A-II, B-III, C-I, D-IV

7. Match List I with List II. **Final NEET (UG)-2022**

List I	List II
A. Heroin	I. Effect on cardiovascular system
B. Marijuana	II. Slow down body function
C. Cocaine	III. Painkiller
D. Morphine.	IV. Interfere with transport of dopamine

Choose the correct answer from the options given below:

- (1) A-IV, B-III, C-II, D-I
- (2) A-III, B-IV, C-I, D-II
- (3) A-II, B-I, C-IV, D-III
- (4) A-I, B-II, C-III, D-IV

8. Given below are two statements:

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Statement I: Bone marrow is the main lymphoid organ where all blood cells including lymphocytes are produced.

Statement II: Both bone marrow and thymus provide micro environments for the development and maturation of T-lymphocytes. T

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

- (1) Statement I is correct but statement II is incorrect.
- (2) Statement I is incorrect but statement II is correct.
- (3) Both statement I and Statement II are correct.
- (4) Both statement I and Statement II are incorrect.

9. Math List-I with List-II.

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	List-I		List-II
A.	Common cold	I.	Plasmodium
B.	Haemozoin	II.	Typhoid
C.	Widal test	III.	Rhinoviruses
D.	Allergy	IV.	Dust mites

Choose the **correct** answer from the options given below.

- (1) A-III, B-I, C-II, D-IV
- (2) A-IV, B-II, C-III, D-I
- (3) A-II, B-IV, C-III, D-I
- (4) A-I, B-III, C-II, D-IV

10. Math List-I with List-II.

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	List-I		List-II
A.	Cocaine	I.	Effective sedative in surgery
B.	Heroin	II.	<i>Cannabis sativa</i>
C.	Morphine	III.	<i>Erythroxylum</i>
D.	Marijuana	IV.	<i>Papaver somniferum</i>

Choose the **correct** answer from the options given below.

- (1) A-II, B-I, C-III, D-IV
- (2) A-III, B-IV, C-I, D-II
- (3) A-IV, B-III, C-I, D-II
- (4) A-I, B-III, C-II, D-IV

11. Which of the following diseases is non-infectious?

- (1) AIDS
- (2) Cancer
- (3) Pneumonia
- (4) Common cold

12. Intestinal perforation and death may occur in severe cases, in which of the following diseases?

- (1) Typhoid
- (2) Pneumonia
- (3) Common cold
- (4) Dysentery

13. Monocytes in the blood are an example of;

- (1) physical barrier of innate immunity.
- (2) physiological barrier of innate immunity.
- (3) cellular barrier of innate immunity.
- (4) cytokine barrier of innate immunity.

14. Which of the following cells are responsible for humoral immune response?

- (1) T cells
- (2) B cells
- (3) Macrophages
- (4) Neutrophils

15. The chemical nature of an antibody molecule is;

- (1) protein
- (2) lipid
- (3) nucleic acid
- (4) monosaccharide

16. Which of the following types of antibodies are associated with an allergic response?

- (1) IgA antibodies
- (2) IgM antibodies
- (3) IgG antibodies
- (4) IgE antibodies

17. The antigen binding sites are present between;

- (1) two heavy chains.
- (2) two light chains.
- (3) one heavy chain and one light chain.
- (4) two heavy chains and one light chain.

18. The foetus also receives some antibodies from their mother, through the placenta during pregnancy. This is an example of;

- (1) active immunity.
- (2) passive immunity.
- (3) cell mediated immunity.
- (4) None of these

19. Which of the following organs is not a secondary lymphoid organ?

- (1) Spleen
- (2) Appendix
- (3) Thymus
- (4) None of these

20. The lymphoid tissue located within the lining of major tracts, constitutes about ____ of the lymphoid tissue in the body.

Choose the option which fills the blank correctly.

- (1) 50%
- (2) 70%
- (3) 90%
- (4) 20%

21. α interferons are used in the treatment of;
 (1) AIDS (2) malaria
 (3) cancer (4) typhoid
22. Graft rejections can be prevented by;
 (1) immunoglobulins
 (2) B cells
 (3) interferons
 (4) immunosuppressant drugs.
23. Symptoms of allergy can be reduced by;
 (1) adrenaline (2) steroids
 (3) retroviral drugs (4) Both (1) and (2)
24. Identify the given structure and choose the correct option.
 (1) Skeletal structure of cannabinoid molecule.
 (2) Chemical structure of morphine.
 (3) Skeletal structure of benzodiazepine molecule.
 (4) Chemical structure of amphetamine molecule.
25. Nicotine mainly stimulates which of the following glands?
 (1) Pineal (2) Thyroid
 (3) Thymus (4) Adrenal
26. Which of the following options can lead to neoplastic transformation?
 (1) Ionising radiations
 (2) Non-ionising radiations
 (3) Oncogenic viruses
 (4) All of these
27. In the given structure of an antibody molecule, which of the following represents a light chain?
 (1) A (2) B
 (3) C (4) D
28. Which of the following is a vector-borne disease?
 (1) Malaria
 (2) AIDS
 (3) Cancer
 (4) Common cold
29. Introducing antitoxins in the infection of tetanus in a person is an example of;
 (1) cell-mediated immunity.
 (2) innate immunity
 (3) active immunity
 (4) passive immunity

30. What is the role of memory cells in acquired immunity?
 (1) To produce histamine during an allergic reaction.
 (2) To remember and respond more rapidly to pathogens upon subsequent exposures.
 (3) To destroy pathogens through phagocytosis.
 (4) To form the physical barriers against pathogens.
31. Which of the following is characteristic of the primary immune response?
 (1) Rapid activation of memory cells.
 (2) Slow production of antibodies.
 (3) It is of high intensity.
 (4) No memory cell formation.

32. Math List-I with List-II.

	List-I		List-II
A.	Bacterial disease	I.	Ringworm infection
B.	Fungal disease	II.	Filariasis
C.	Viral disease	III.	Typhoid
D.	Helminthic disease	IV.	Common cold

Choose the **correct** answer from the options given below.

- (1) A-IV, B-III, C-II, D-I
 (2) A-I, B-III, C-II, D-IV
 (3) A-II, B-III, C-IV, D-I
 (4) A-III, B-I, C-IV, D-I

33. Math List-I with List-II.

	List-I		List-II
A.	Physical barrier	I.	Macrophages
B.	Physiological barrier	II.	Skin
C.	Cytokine barrier	III.	Saliva from mouth
D.	Cellular barrier	IV.	Interferons

Choose the **correct** answer from the options given below.

- (1) A-III, B-II, C-IV, D-I
 (2) A-II, B-III, C-IV, D-I
 (3) A-III, B-I, C-IV, D-II
 (4) A-II, B-IV, C-I, D-III

34. Math List-I with List-II.

	List-I		List-II
A.	Allergy	I.	IgE
B.	Colostrum	II.	Yeast
C.	Hepatitis B vaccine	III.	IgA
D.	Typhoid	IV.	Widal test

Choose the **correct** answer from the options given below.

- (1) A-I, B-III, C-II, D-IV
- (2) A-II, B-III, C-IV, D-I
- (3) A-III, B-I, C-IV, D-II
- (4) A-IV, B-III, C-II, D-I

35. Math List-I with List-II.

	List-I		List-II
A.	Sedative	I.	Cocaine
B.	Sense of euphoria	II.	Cannabinoids
C.	Treats insomnia	III.	Morphine
D.	Abused by sportsmen	IV.	Barbiturates

Choose the **correct** answer from the options given below.

- (1) A-IV, B-III, C-II, D-I
- (2) A-IV, B-II, C-III, D-I
- (3) A-II, B-III, C-IV, D-I
- (4) A-III, B-I, C-IV, D-II

36. Math List-I with List-II.

	List-I		List-II
A.	Carcinogen present in tobacco smoke	I.	Physical agent
B.	Gamma rays	II.	Chemical agent
C.	Gamma rays	III.	Biological agent

Choose the **correct** answer from the options given below.

- (1) A-I, B-III, C-II
- (2) A-II, B-III, C-I
- (3) A-II, B-I, C-III
- (4) A-III, B-I, C-II

37. **Assertion (A)** : Cancer is a non-infectious disease.

Reason (R) : Cancer cannot be transmitted from one person to another.

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

- (1) A is false but R is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true but R is not the correct explanation of A.
- (4) A is true but R is false.

38. **Assertion (A)** : Injections given to snakebite patients provide passive immunity.

Reason (R) : The injection contains preformed antibodies against the snake venom.

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

- (1) A is false but R is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true but R is not the correct explanation of A.
- (4) A is true but R is false.

39. **Assertion (A)** : Bone marrow is a primary lymphoid organ.

Reason (R) : Bone marrow provides the sites for interaction of lymphocytes with the antigen.

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

- (1) A is false but R is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true but R is not the correct explanation of A.
- (4) A is true but R is false.

40. **Assertion (A)** : Vaccination is an effective way to prevent diseases.

Reason (R) : Vaccines stimulate the immune system to produce antibodies against specific pathogens.

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

- (1) A is false but R is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true but R is not the correct explanation of A.
- (4) A is true but R is false.

41. **Assertion (A)** : Malignant tumours cause little damage.

Reason (R) : Malignant tumours show metastasis.

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

- (1) A is false but R is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true but R is not the correct explanation of A.
- (4) A is true but R is false.

- 42. Assertion (A) :** Treatment of AIDS with anti-retroviral drugs is completely effective.
Reason (R) : AIDS has no cure, prevention is the best option.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.
- 43. Assertion (A) :** Smoking causes oxygen deficiency in the body.
Reason (R) : Smoking increases carbon monoxide (CO) content in blood and reduces the concentration of haembound oxygen.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.
- 44. Assertion (A) :** Heroin acts as a depressant.
Reason (R) : Heroin stimulates secretion of adrenaline and nor adrenaline.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.
- 45. Assertion (A) :** House flies act as mechanical carriers for amoebic dysentery.
Reason (R) : House flies serve to transmit the parasite from faeces of an infected person to food and food products, thereby contaminating them.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.

- 46. Assertion (A) :** Rheumatoid arthritis is an autoimmune disease.
Reason (R) : Autoimmune diseases are exaggerated responses of the immune system.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.
- 47. Assertion (A) :** An antibody is represented as H_2L_2 .
Reason (R) : Each antibody molecule has two peptide chains.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.
- 48. Assertion (A) :** In metro cities of India, more and more children suffer from allergies.
Reason (R) : Children in metro cities get protected environment early in their life.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.
- 49. Assertion (A) :** Macrophages act like HIV factories in an infected person.
Reason (R) : In macrophages, the virus continues to increase in number.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.

- 50. Assertion (A) :** Tissue matching is essential before undertaking any graft/transplant.
Reason (R) : The cell-mediated immune response is responsible for the graft rejections.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.
- 51. Assertion (A) :** Active immunity is slow.
Reason (R) : In active immunity, ready-made antibodies are introduced in a person.
 In the light of the above statements, choose the correct answer from the options given below.
- (1) A is false but R is true.
 - (2) Both A and R are true and R is the correct explanation of A.
 - (3) Both A and R are true but R is not the correct explanation of A.
 - (4) A is true but R is false.
- 52.** Given below are two statements.
Statement I: Excessive doses of drugs may lead to coma and death.
Statement II: Reckless behaviour, vandalism and violence are immediate adverse effects of drugs and alcohol abuse.
 In the light of the above statements, choose the most appropriate answer from the options given below.
- (1) Statement I is correct but Statement II is incorrect.
 - (2) Statement I is incorrect but Statement II is correct.
 - (3) Both Statement I and Statement II are correct.
 - (4) Both Statement I and Statement II are incorrect.
- 53.** Given below are two statements.
Statement I: Excessive dosage of cocaine causes hallucinations.
Statement II: tobacco has been used by human beings for more than 40 years.
 In the light of the above statements, choose the most appropriate answer from the options given below.
- (1) Statement I is correct but Statement II is incorrect.
 - (2) Statement I is incorrect but Statement II is correct.
 - (3) Both Statement I and Statement II are correct.
 - (4) Both Statement I and Statement II are incorrect.

- 54.** Given below are two statements.
Statement I: AIDS has no cure, prevention is the best option.
Statement II: HIV infection, more often, spreads due to conscious behaviour patterns.
 In the light of the above statements, choose the most appropriate answer from the options given below.
- (1) Statement I is correct but Statement II is incorrect.
 - (2) Statement I is incorrect but Statement II is correct.
 - (3) Both Statement I and Statement II are correct.
 - (4) Both Statement I and Statement II are incorrect.
- 55.** Given below are two statements.
Statement I: A widely used diagnostic test for AIDS is ELISA.
Statement II: Spleen acts as a filter of the blood by trapping blood-borne micro-organisms.
 In the light of the above statements, choose the most appropriate answer from the options given below.
- (1) Statement I is correct but Statement II is incorrect.
 - (2) Statement I is incorrect but Statement II is correct.
 - (3) Both Statement I and Statement II are correct.
 - (4) Both Statement I and Statement II are incorrect.
- 56.** Given below are two statements.
Statement I: The thymus is the main lymphoid organ where all blood cells, including lymphocytes are produced.
Statement II: The thymus is quite small at the time of birth but keeps increasing in size with age.
 In the light of the above statements, choose the most appropriate answer from the options given below.
- (1) Statement I is correct but Statement II is incorrect.
 - (2) Statement I is incorrect but Statement II is correct.
 - (3) Both Statement I and Statement II are correct.
 - (4) Both Statement I and Statement II are incorrect.
- 57.** Given below are two statements.
Statement I: Allergy is due to the release of chemicals like histamine and serotonin from the mast cells.
Statement II: Large scale production of vaccines was possible because of recombinant DNA technology.

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

- (1) Statement I is correct but Statement II is incorrect.
- (2) Statement I is incorrect but Statement II is correct.
- (3) Both Statement I and Statement II are correct.
- (4) Both Statement I and Statement II are incorrect.

58. Given below are two statements.

Statement I: Different types of antibodies are produced in our body.

Statement II: The T-cells themselves do not secrete antibodies but help B cells to produce them.

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

- (1) Statement I is correct but Statement II is incorrect.
- (2) Statement I is incorrect but Statement II is correct.
- (3) Both Statement I and Statement II are correct.
- (4) Both Statement I and Statement II are incorrect.

59. Given below are two statements.

Statement I: Use of vaccines helped us to completely eradicate small pox.

Statement II: Introducing fishes like Gambusia in ponds helps us in prevention of air-borne diseases.

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

- (1) Statement I is correct but Statement II is incorrect.
- (2) Statement I is incorrect but Statement II is correct.
- (3) Both Statement I and Statement II are correct.
- (4) Both Statement I and Statement II are incorrect.

60. Given below are two statements.

Statement I: We cannot use grafts from just any source.

Statement II: Antibody mediated immune response is responsible for graft rejection.

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

- (1) Statement I is correct but Statement II is incorrect.
- (2) Statement I is incorrect but Statement II is correct.
- (3) Both Statement I and Statement II are correct.
- (4) Both Statement I and Statement II are incorrect.

61. Given below are two statements.

Statement I: Benign tumors cells grow very rapidly, invading and damaging the surrounding normal tissues.

Statement II: Antibodies against cancer-specific antigens are used for detection of certain cancers.

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

- (1) Statement I is correct but Statement II is incorrect.
- (2) Statement I is incorrect but Statement II is correct.
- (3) Both Statement I and Statement II are correct.
- (4) Both Statement I and Statement II are incorrect.

62. Given below are two statements.

Statement I: Chemotherapeutic drugs are used to kill cancerous cells.

Statement II: Transformation of normal cells into cancerous neoplastic cells may be induced by biological agents only.

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

- (1) Statement I is correct but Statement II is incorrect.
- (2) Statement I is incorrect but Statement II is correct.
- (3) Both Statement I and Statement II are correct.
- (4) Both Statement I and Statement II are incorrect.

Answer Key

- | | |
|---------|---------|
| 1. (4) | 32. (4) |
| 2. (3) | 33. (2) |
| 3. (2) | 34. (1) |
| 4. (1) | 35. (4) |
| 5. (4) | 36. (3) |
| 6. (3) | 37. (2) |
| 7. (3) | 38. (2) |
| 8. (3) | 39. (4) |
| 9. (1) | 40. (2) |
| 10. (2) | 41. (1) |
| 11. (2) | 42. (1) |
| 12. (1) | 43. (2) |
| 13. (3) | 44. (4) |
| 14. (2) | 45. (2) |
| 15. (1) | 46. (4) |
| 16. (4) | 47. (4) |
| 17. (3) | 48. (2) |
| 18. (2) | 49. (2) |
| 19. (3) | 50. (3) |
| 20. (1) | 51. (4) |
| 21. (3) | 52. (3) |
| 22. (4) | 53. (1) |
| 23. (4) | 54. (3) |
| 24. (1) | 55. (3) |
| 25. (4) | 56. (4) |
| 26. (4) | 57. (3) |
| 27. (2) | 58. (3) |
| 28. (1) | 59. (1) |
| 29. (4) | 60. (1) |
| 30. (2) | 61. (2) |
| 31. (2) | 62. (1) |



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