

# Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - –Immunology

Course Code - MMB203

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Answer all the questions. Each question carry one mark.

9. 1. An antigen preparation and an antibody preparation are tested by immunodiffusion. Three bands are found, indicating that

*Mark only one oval.*

- The antibody was impure
- There was more than one antigen
- There was one antigen and one antibody
- The temperature was too high

10. 2. Which of the following immunoglobulins makes the largest percentage in breast milk?

*Mark only one oval.*

- IgA
- IgE
- IgD
- IgM

11. 3. Oral polio drops contain

*Mark only one oval.*

- harvested antibodies
- activated pathogens
- attenuated pathogens
- gamma globulins

12. 4. Globulins of the blood plasma are responsible for

*Mark only one oval.*

- defence mechanisms
- blood clotting
- oxygen transport
- osmotic balance

13. 5. Antigen binding sites are present in

*Mark only one oval.*

- Fab regions of an antibody
- Fc region of an antibody
- only in the light chain
- only in the heavy chain

14. 6. Specific immunity can be acquired either naturally or artificially and involves

*Mark only one oval.*

- Antigen
- Antibody
- Complement system
- All of these

15. 7. Which of the following cells is involved in cell-mediated immunity?

*Mark only one oval.*

- Cancer cells
- Mast cells
- T cells
- Thrombocytes

16. 8. What is true about the IgM of humans?

*Mark only one oval.*

- IgM can cross the placenta
- IgM can protect the mucosal surface
- IgM is produced by high-affinity plasma cells
- IgM is primarily restricted in the circulation

17. 9. The ability of the immune system to recognize self antigens versus nonself antigen is an example of:

*Mark only one oval.*

- Specific immunity
- Tolerance
- Cell mediated immunity
- Antigenic immunity

18. 10. Monoclonal antibodies recognize a single:

*Mark only one oval.*

- Antigen
- Bacterium
- Virus
- Epitope

19. 11. The following is characteristic of B- but not T-cells

*Mark only one oval.*

- Class I MHC
- CD3
- Polyclonal activation by concanavalin A
- Surface immunoglobulin

20. 12. The light chains are encoded by either kappa or lambda genes. These genes consist of different segments that encode for the variable and constant domain. They are:

*Mark only one oval.*

- V-J-C
- C-J-V
- J-V-C
- None of these

21. 13. Which of the following antibodies may be co-expressed by the B-cells?

*Mark only one oval.*

- IgM and IgA
- IgM and IgD
- IgG and IgD
- IgG and IgE



22. 14. The basic structure of antibodies are \_\_\_\_\_

*Mark only one oval.*

- Y-shaped
- X-shaped
- Linear
- Hyperbolic

23. 15. Which of the following amino acid is found in the hinge region?

*Mark only one oval.*

- Alanine
- Asparagine
- Proline and cysteine
- Phenylalanine

24. 16. Major Histocompatibility Complex is a tight cluster of linked \_\_\_\_\_

*Mark only one oval.*

- Carbohydrates
- Genes
- Proteins
- Lipid molecules

25. 17. What is the name of MHC in humans?

*Mark only one oval.*

- HLA
- H2
- Adjuvants
- Haplotype

26. 18. Name the class of MHC which is recognized by CD4 TH cell

*Mark only one oval.*

- MHC cannot recognize T cells
- MHC III
- MHC I
- MHC II

27. 19. Which of the following statement is INCORRECT about superantigens?

*Mark only one oval.*

- Viral or bacterial proteins
- Endogenous by nature
- Unique binding ability
- Activate a large number of T-cells

28. 20. \_\_\_\_\_ is responsible for B-cell activation?

*Mark only one oval.*

- Infection
- Allergy
- Antibody
- Antigen

29. 21. Which of the following acts as a coreceptor for B-cell activation?

*Mark only one oval.*

- CD28
- CD19
- IgA
- IL-2

30. 22. Out of these, which transcription factor does not take part in B-cell activation?

*Mark only one oval.*

- Abl
- NF- kB
- Jun
- Fos

31. 23. Name the cytokines which act as a T-cell growth factor?

*Mark only one oval.*

IL2

IL4

IL3

IL6

32. 24. Name the major constituents of cytotoxic T-lymphocyte?

*Mark only one oval.*

Lysozyme

Lymph

Protein

Perforin and granzyme

33. 25. Which of the following cell is a multipotent cell?

*Mark only one oval.*

Haematopoetic stem cells

T-cell

B cell

Monocytes

34. 26. Major Histocompatibility Complex is a tight cluster of linked \_\_\_\_\_

*Mark only one oval.*

- Carbohydrates
- proteins
- Genes
- lipids

35. 27. MHC class II is a cell surface molecule present on

*Mark only one oval.*

- T cells
- B cells
- All nucleated cells
- APCs

36. 28. The test that is done prior to transplantation surgery to determine the compatibility of MHC proteins between donor and recipient is called

*Mark only one oval.*

- MHC matching
- MHC typing
- tissue typing
- blood HLA test

37. 29. Trophozoites, Schizonts and gametocytes of all the malarial parasites are seen in the peripheral blood smear except

*Mark only one oval.*

- P. falciparum
- P. malariae
- P. ovale
- P. vivax

38. 30. Which of the following statement is true about the Malarial parasites?

*Mark only one oval.*

- Malarial parasites can be best obtained from a patient when the temperature comes to normal
- Malarial parasites can be best obtained from a patient, an hour before the rise of temperature
- Malarial parasites can be best obtained from a patient, a few hours after the temperature reaches normal
- Malarial parasites can be best obtained from a patient when the temperature rises with rigour

39. 31. HIV parasitizes \_\_\_\_

*Mark only one oval.*

- Y helper cells
- T helper cells
- K helper cells
- None of these

40. 32. To which of the following disease HIV virus leads to?

*Mark only one oval.*

- Cancer
- Brain tumour
- AIDS
- Hepatitis

41. 33. What is the full form of HIV?

*Mark only one oval.*

- Human immunodeficiency virus
- Human immunodeficiency vessels
- Health interexchange virus
- Health immunodeficiency virus

42. 34. Name the group of pattern recognition molecules which functions exclusively as a signaling receptor?

*Mark only one oval.*

- CRP
- Toll-like receptor
- MBL
- LPS

43. 35. What is the origin of B-cell?

*Mark only one oval.*

- Pancreas
- Liver
- Thymus
- Bone marrow

44. 36. Name the macrophages which are associated central nervous system.

*Mark only one oval.*

- Alveolar macrophages
- Kupffer cell
- Mesangial
- Microglial cells

45. 37. Which of the following subunits have three ITAM domains?

*Mark only one oval.*

- Gamma
- Delta
- Epsilon
- Zeta



46. 38. This is cancerous state of blood

*Mark only one oval.*

- Uremia
- Chloremia
- Leukemia
- Proteinemia

47. 39. Benign tumour is the one which

*Mark only one oval.*

- differentiated and capsulated
- shows metastasis
- differentiated and non capsulated
- undifferentiated and non capsulated

48. 40. Chemicals, that can induce cancer are called

*Mark only one oval.*

- Carcinogens and produce malignant tumour
- carcinogens and produce non-malignant tumour
- mutagenic agents and do not produce malignant tumour
- mutagenic agents and produce benign tumour

49. 41. Cancer is related to

*Mark only one oval.*

- Non-malignant tumor
- uncontrolled growth of tissues
- controlled division of tissues
- none of the above

50. 42. Which of the following types of cell produce IgE?

*Mark only one oval.*

- Mast cells
- Eosinophils
- Plasma cells
- T lymphocytes

51. 43. Which of the following cell types is phagocytic?

*Mark only one oval.*

- Hepatocytes
- Monocytes
- Lymphocytes
- Erythrocytes

52. 44. The antigen-specific lymphocytes can be immortalized by which of the following method?

*Mark only one oval.*

- Transfection with tumor derived DNA
- Hybridization with a suitable lymphoid tumor cell
- Transformation following infection by Epstein-Barr virus (EBV)
- All of these

53. 45. Helper T cells assist in the functions of

*Mark only one oval.*

- certain B cells
- certain T cells
- certain B cells and other T cells
- None of these

54. 46. Monoclonal antibodies are routinely used in all of the following EXCEPT

*Mark only one oval.*

- the classification of leukemias
- the identification and epidemiological study of infectious microorganisms
- the identification of tumor antigens
- the manipulation of the immune response

55. 47. Which of the following isotype antibody is a potent activator of the classical complement pathway?

*Mark only one oval.*

- IgM
- IgA
- IgE
- IgD

56. 48. Which of the following complement component facilitate opsonization and phagocytosis?

*Mark only one oval.*

- C5b
- C3b
- C5a
- C3a

57. 49. The major role of the complement system is to work in conjunction with

*Mark only one oval.*

- antibodies to lyse cells via the C8 and C9 components
- antibodies to lyse cells via the perforin molecules
- antibodies to opsonize cells
- the major histocompatibility complex for cell recognition

58. 50. Several of the complement components are:

*Mark only one oval.*

- Antibodies
- Enzymes
- Option 3
- Cytokines

59. 51. Which is working principle of ELISA ?

*Mark only one oval.*

- Ag and Ab neutralisation
- Ag and Ab complex formation
- both 1 and 2
- none of these

60. 52. Indirect ELISA which is detected in sample ?

*Mark only one oval.*

- Antigen
- Antibody
- both 1 and 2
- none of these

61. 53. In a flow cytometer you will see the cells lacking both the labels in \_\_\_\_\_ quadrant

*Mark only one oval.*

1st

2nd

3rd

4th

62. 54. Which fluorescent dye can be used for red fluorescence?

*Mark only one oval.*

Rhodamine

Fluorescein

Carmine

DAPI

63. 55. Which of the following is an active cell death process?

*Mark only one oval.*

Apoptosis

Necrosis

Senescence

Lysis

64. 56. Which of the following is an anti apoptotic protein?

*Mark only one oval.*

Bcl-Xs

Bfl 1

Bim

NOXA

65. 57. Caspases belong to the class of \_\_\_\_\_

*Mark only one oval.*

Serine proteases

Cystine proteases

Aspartate proteases

Hydrolases

66. 58. The concept of vaccination was first developed by

*Mark only one oval.*

Louis Pasteur

Joseph Mister

Edward Jenner

Carl Landsteiner

67. 59. All the given vaccines are attenuated or inactivated whole pathogen except

*Mark only one oval.*

- salk
- sabin
- hepatitis B
- tetanus

68. 60. Plasmids encoding antigenic protein from a pathogen that is directly injected into the cells where it express constitute

*Mark only one oval.*

- protein vaccines
- nucleotide vaccines
- DNA vaccines
- recombined vaccines

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