

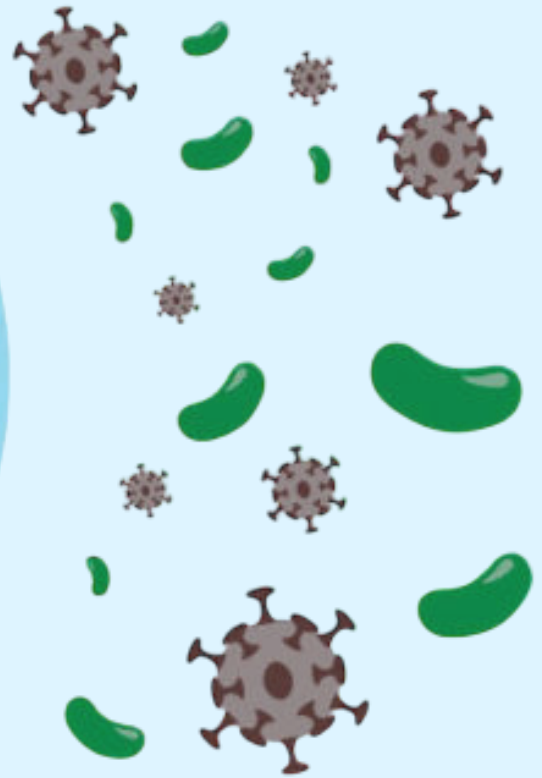
Immune Archive⁺



زوح - Final

Done by :

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1. Concentration of Tube = 200 micro/ml It decreases 0.5 ml when put 9.3 ml of dilution, complete 3 times of dilution, what is the concentration tube 4?

- A- 2,6 micro/ml**
- B- 0.025**
- C- 000**
- D- 0.050**
- E- 0.1**

Answer: B

2. the major chemokine supporting neutrophils migration into tissues?

- A- IL-1**
- B- IL-2**
- C- IL-4**
- D- IL-6**
- E- IL-8**

Answer: E

3. disorder that defect T cell and B cell

- A- RAG 1 only**
- B- RAG 2 only**
- C- RAG 1 & RAG2**
- D- RAG 1 or RAG 2**
- E- adenosine deaminase ADA**

Answer: D

4. X- linked IL-7 2RY chain deficiency

- A- normal B cell , no T no NK cell**
- B- defect B cell, no T no NK**
- C- defect B, normal T no NK**
- D- no B cell, normal T no NK**
- E- no B cell, no T no NK**

Answer: A

5 what type of cytokine mediated hypersensitivity reaction

- A-1**
- B- 2**
- C-3**
- D-4**
- E-5**

Answer: D

6. true regarding tuberculin test

- A- for testing hypersensitivity type 1**
- B- skin hardening after 72 hr**

Answer: B

Answer: B



7. oncogenic virus

- A- Epstein-Barr virus
- B- hepatitis B
- C- Kaposi sarcoma

Answer: A

8. Antigen present during fetal life but lost during adult, reappear with cancer

*** Answer: Oncofetal**

9. tolerance of B cell for

- A- recognition the B cell to the self-antigen
- B- recognition the B cell to the foreign antigen
- C- Recognition of B cells to other B cells
- D- Tolerate with extracellular conditions: pH and temperature

Answer: A

10. mutation in Fas ligand lead to

- A- oncogenesis
- B- immunodeficiency
- C- autoimmune disease

Answer: C

11 renal basement membrane defects due to

- A- idiopathic thrombocyte purpura
- B- good pastures syndrome
- C- vitiligo

Answer: B

12 one of the following diseases is type 2&3 hypersensitivity reaction

- A- lupus
- B- type 1 diabetic
- C- rheumatic fever
- D- ulcerative colitis
- E- Crohn's disease

Answer: A

13. one of the following is true regarding Rheumatoid arthritis

- A- Rheumatoid factor presence for diagnosis
- B- anti IFN -alpha treatment

Answer: A

14. all the following is true regarding Rheumatic fever except

*** Answer: Latex test use for diagnosis only**



15. interferon beta can use for treatment

- A- mythsenia graves**
- B- basic pro protein**

Answer: B

16. hyper acute rejection involve (type 2 hypersensitivity)

- A- cytokine**
- B- Antibody**

Answer: B

17. calcineurin is

- A- prevent IL-2 proliferation**
- B- prevent B cell proliferation**
- C- inhibit T cell cytokine**
- D- CTL-A 4**
- E- Fas& Fas L**

Answer: A

18. Which is false about live attenuated vaccine?

- A- contraindicated for immunodeficient people**
- B- an example is oral polio**
- C- an example is rota virus**
- D- least efficient**

Answer: D

19. which of this interleukin Cause fever?

Answer: IL-1

A mutation in the genes encoding the enzyme Bruton's tyrosine kinase (Btk) .20 :would lead to which of the following Select one

- a) Human immuno-deficiency virus (HIV) infection**
- b) Acquired immune deficiency syndrome (AIDS)**
- c) Severe combined immunodeficiency (SCID) syndrome**
- d) Systemic inflammatory response syndrome (SIRS, sepsis)**
- e) X-linked agammaglobulinemia**

Answer: E

21. In agglutination reactions, the antigen is a _____ and in precipitation :reactions, the antigen is a __ Select one

- a) Bound to cell/soluble molecule**
- b) Soluble molecule/bound to cell**
- c) Bacterium/virus**
- d) Protein/carbohydrate**
- e) Virus/bacterium**

Answer : A



22. BCG vaccine should give in?

- A- colon cancer**
- B- lung**
- C- bladder cancer**
- D- breast**
- E- all types of cancers**

Answer: C

23. The Pfizer vaccine is?

- a- mRNA vaccine**
- b- DNA**

Answer: A

24. Subunit vaccine from pathogen like _____ less effective alone so use with

-
- A- attenuated vaccine, adjuvant**
- B- Toxoid, adjuvant**
- C- attenuated vaccine, supplement**
- D- Toxoid, supplement**

Answer: B

25.

Rheumatic fever all correct except

- A- Streptococcus pyogenes infection**
- B- Systemic**
- C- only Rheumatic factor**

Answer: C

26. Cytokine interleukin-7 is a hematopoietic growth factor capable of stimulating the proliferation of lymphoid ___. It ___ affected by X-linked SCID.

Select one:

- a) Hematopoietic stem cells (HSCs); Is**
- b) Progenitor (precursor) cells (Pro- B and Pro- T cells); Is**
- c) Mature cells; Is**
- d) Hematopoietic stem cells (HSCs); Is not**
- e) Progenitor (precursor) cells; Is not**

Answer: A

27. Which of the following is Type 2&3 hypersensitivity?

Answer: SLE (Systemic Lupus Erythematosus)

28. Generation T reg require

- A- IL-6**
- B- TGF- β & IL-2**
- C- TGF- β & IL-10**
- D- TGF β ONLY**

Answer: B



29. hepatitis B surface antigen (HBsAg) doses

- A- one
- B- two
- C- three
- D- four
- E- five



Answer: C

30. subunit vaccines recommended in national program

- A- opv
- B- diphtheria , tetanus
- C- hepatitis B

Answer: B

31. defect in MHC class I and (or MHC class II) enhance one of the following

- A- AIDs (Activation Induced cytidine Deaminase)
- B- HIV
- C- premeditated infection

Answer: A

32. killed vaccine

- A- Sinopharm
- B- flu virus by nasal spray
- C- rotavirus
- D- oral polio

Answer: A

33. infant male with triad symptoms eczema - thrombocytopenia and susceptibility to bacterial infections

- A- IGG subclass deficiency
- B- Ataxia telangiectasia
- C- selective IgA deficiency
- D- wiskott - Aldrich syndrome

Answer: D

34. bone marrow transplant use for treatment all the following except

- A- leukemia
- B- B cell lymphoma
- C- SCID
- D- Autoimmune disorders

Answer: D

35. lymphocytotoxicity assay used for

- A- mixed leukocyte from donor and recipient in culture
- B- donor serum is tested for reactivity with recipient lymphocyte
- C- recipients serum is tested for reactivity with donor antigen

Answer: C

36. indirect rejection

- A- CD4& CD8
- B- CD4 ONL
- C- CD8 ONLY

Answer: B

37. what is the cause of fever in bacterial infections

- A- IL-1 & TNF
- B- bacteria infect hypothalamus

Answer: A

38. IL-4 act in B cell and eosinophils that is mean

- A- pleiotropic
- B- synergistic
- C- multifunctional
- D- antagonist
- E- redundant

Answer: A

39. all the following are preformed mediators except

- A- histamine
- B- tryptase
- C- heparin
- D- proteoglycan
- E- prostaglandin

Answer: E

40. use the sheep RBC in?

Answer: complement fixation

41. The Affinity of an antibody can be determined by

- a. ELISA (Enzyme-linked immunosorbent assay)
- b. fluorescent antibody (fluorochromes)
- C. FACS (Fluorescence-activated cell sorting)
- d. Western blotting (immunoblotting)
- e. surface plasmon resonance

Answer: E



42. If adenosine deficiency occurs, which of the following is true? Select one

- a. T cells will be absent but B and NK cells will be present
- b. T and B cells will be absent, but NK cells will be present
- c. B cells will be absent, but T and NK cells will be present
- d. B and NK cells will be present, but T cells will be absent
- e. B, T, and NK cells will be absent

Answer: E

43. Superantigens such as staphylococcal enterotoxins bind to certain TCR chains and to molecules. Select one:

- a. Alpha, MHC 1
- b. Beta, MHC2
- c. Delta MHC1 OF
- d. Gamma MHC1
- e. Alpha, MHC

Answer: B

44. A young child presents with severe periodontitis; History reveals recurrent pyogenic infections. Which of the following is the most likely? Select one:

- a) C3 deficiency
- b) Leukocyte adhesion deficiency (LAO)
- c) Wiscott-Aldrich syndrome (WAS)
- d) Hyper IgM syndrome (HIM)
- e) Selective IgA deficiency

Answer: B

45. Global T cell growth Factor. Select one:

- a) IL-4
- b) IL-10
- c) Interferon-gamma
- d) IL-2
- e) Tumor necrosis factor beta

Answer: D:

46. Example of privileged site

- A- skin
- B- heart
- C- testis
- D- blood
- E- all of the above

Answer: C



47. Cytokines produced by TH1 are ____ and cytokines produced by TH2 are ____ Select one:

- a) IFN-gamma and tumor necrosis factor, IL-4 and IL-5
- b) IL-4 and IL-5; IFN-gamma and tumor necrosis factor
- c) IFN-gamma and IL-4; Tumor necrosis factor and IL-5
- d) Tumor necrosis factor and IL-5; IFN-gamma and IL-4
- e) IFN-gamma and IL-5; Tumor necrosis factor and IL-4

Answer: A

48. Which cell produces IL-12?

- a) Macrophages
- b) Eosinophil
- c) Neutrophil
- d) Mast cell
- e) B Cell

Answer: A

49. Case: eczema, low platelets, infection, and malignancy:

- a) Digeorge syndrome
- b) Ataxia telangiectasia
- c) SCID
- d) Leukocyte adhesion defect
- e) Wiskott-Aldrich syndrome

Answer: E

50. An example of a known oncogenic virus is:

- a) Herpes zoster
- b) HIV-2
- c) Epstein-Barr virus
- d) Vesicular stomatitis virus
- e) Proteus mirabilis

Answer : C

انتبه جيداً..

لا يَمْنَعُكَ خَطْوُكَ عَنِ الْعَمَلِ، وَلَا يَوْقِفُكَ دَنْبُكَ عَنِ الْمَحَاوَلَةِ، وَلَا يَخْدَعُكَ الْفِرَاقُ
مَهْمَا تَزَيَّنَ لَكَ، عَثْرَتُكَ خَطْوَةً، وَتَوْبُتُكَ حَيَاةً!
-قصي عاصم العسيلي-

