

21. 下列何者非副腫症候群?
(A)子宮頸癌病人出現高血鈣
(C)大腸癌病人出現黑色素棘皮症

(B)腎上腺瘤分泌皮質素
(D)胰臟癌病人出現血栓體質

22. 下列何種疾病和石綿的曝露最有關?
(A)間皮瘤
(B)肺腺癌

(C)肺氣腫
(D)不明原因肺纖維化

23. 下列毒素，何者最會造成癌症?
(A)鉛
(B)砷

(C)鉻
(D)汞

24. 中大型動脈的肉芽腫性血管炎稱為：
(A) Takayosu 動脈炎
(C) Kawasaki 氏病

(B)結節性多動脈炎(polyarteritis nodosa)
(D) Graves 氏病

25. 下列何病可以看到抗基底膜抗體(anti-basement membrane antibody)?
(A) Wegener 肉芽腫病(Wegener granulomatosis)
(C) Churg-Strauss 痘候群

(B) Goodpasture 痘候群
(D) Henoch-Schonlein 紫斑症

26. Which one is not the typical feature of apoptosis?
(A) chromatin condensation
(B) cytoplasmic bleb
(C) cell shrinkage

(D) cell swelling
(E) phagocytosed by macrophage

27. Which organelle(s) is/are with double membrane?
(A) mitochondria
(B) autophagosome
(C) endosome
(D) lysosome
(E) Golgi complex

28. Which description is wrong?
(A) An infarct in tissue is an area of ischemic necrosis caused by occlusion of the supplying vessel.
(B) The infarct in lung appears as "white infarction".
(C) Testicular torsion sometimes causes venous occlusion to result in red infarction.
(D) Cardiogenic shock could lead to white infarction of heart.

29. Which description is wrong?
(A) Type I hypersensitivity is often due to immediate release of vasoactive amine from B cells.
(B) Systemic lupus erythematosus is a disease categorized as type III hypersensitivity.
(C) Contact dermatitis is a cell-mediated hypersensitivity caused by activated T lymphocytes.
(D) Breakdown of self-antigen tolerance of the immune system is the basis of autoimmune disease.

30. Extracellular deposition of amyloid could damage tissues. Which special stain can be used to show apple-green birefringence in amyloid under polarized light?
(A) Hematoxylin & Eosin stain
(B) Masson stain
(C) Silver stain

(D) Congo red stain
(E) Gomori-trichrome stain

31. Aquired immunodeficiency syndrome (AIDS) is a disease caused by HIV infection in:
(A) CD8+ T cells
(B) macrophage
(C) CD4+ T cells
(D) Bcl-2+ B cells
(E) dendritic cells

32. Both chickenpox rash and shingles are caused by infection of:
(A) Cytomegalovirus
(B) Herpes simplex virus 1
(C) Mumps virus

(D) Herpes simplex virus 2
(E) Varicella-zoster virus

33. Tuberculosis is a chronic pulmonary and system disease caused most by:
(A) Mycobacteria
(B) Gram-positive bacilli
(C) Yersinia pestis
(D) Aspergillus

34. The specific pathogen you answered in the question (33.) could be highlighted by:
(A) Gram stain
(B) Acid-fast stain
(C) PAS stain
(D) Silver stain
(E) Masson stain

35. Cor pulmonale results from:
(A) pulmonary hypotension
(B) pulmonary hypertension

(C) pulmonary traumatic injury
(D) pulmonary infection

36. Which congenital heart disease would cause right-to-left shunt and cyanosis in early life?
(A) atrial septal defect (ASD)
(B) ventricular septal defect (VSD)

(C) patent ductus arteriosus (PDA)
(D) tetralogy of Fallot (TOF)

37. The replacement of a glutamate residue with a valine residue at the 6th codon of β -globin could result in:
 (A) β thalassemias (B) sickle cell disease (C) α thalassemias (D) megaloblastic anemia
38. Pernicious anemia is caused by autoimmune gastritis that impairs the production of intrinsic factor, which in turn affects the uptake of:
 (A) vitamin B₁₂ (B) iron (C) Mg (D) folic acid
39. Which infection is frequently associated with nasopharyngeal carcinoma?
 (A) Herpes virus (B) enterovirus (C) EBV (D) CMV
40. Chewing betel quid and paan is a major predisposing factor in Asia for:
 (A) oral squamous cell carcinoma (B) aphthous ulcer
 (C) periodontitis (D) nasopharyngeal carcinoma
41. Which description about HCV is INCORRECT?
 (A) HCV genome codes for a single polyprotein that is processed into functional proteins.
 (B) HCV is a double-stranded DNA virus.
 (C) HCV RNA polymerase has low fidelity.
 (D) HCV is inherently unstable and exists as quasispecies.
42. Which lesion is NOT the precursor lesion of hepatocellular carcinoma?
 (A) nodular regenerative hyperplasia (B) small cell change (C) large cell change
 (D) hepatocellular adenoma (E) low grade dysplastic nodule
43. Which is NOT the risk factor for gallstones?
 (A) aging (B) oral contraceptives (C) obesity (D) biliary infection (E) chronic hepatitis
44. Loss of function mutation in PKD1 or PKD2 gene could lead to:
 (A) medullary sponge kidney (B) renal cell carcinoma
 (C) autosomal dominant polycystic disease (D) nephrosclerosis
45. Which infection is highly associated with cervical intraepithelial neoplasia?
 (A) HSV (B) HPV (C) CMV (D) EBV (E) HIV
46. Which description is WRONG?
 (A) Lymphocytic thyroiditis often occurs after a pregnancy.
 (B) Graves disease is the most common cause of endogenous hyperthyroidism.
 (C) Hashimoto thyroiditis is the most common cause of hypothyroidism in regions where dietary iodine levels are insufficient.
 (D) ADH deficiency causes diabetes insipidus.
47. Which is not the contributing factor for osteoporosis ?
 (A) aging (B) lack of physical activity (C) gender difference (D) insufficient Ca intake
48. Gout is a transient attack of acute arthritis initiated by crystallization of:
 (A) calcium phosphate (B) monosodium urate
 (C) glycerol (D) magnesium phosphate around the joint.
49. The most abundant cell type in the brain is:
 (A) neuron (B) oligodendrocyte (C) ependymal cell (D) astrocyte
50. Which disease is not classified as neurodegenerative disease?
 (A) Parkinson disease (B) Alzheimer disease (C) amyotrophic lateral sclerosis
 (D) multiple sclerosis (E) frontotemporal dementia

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