

SAMPLE TEST

1; An Asian child presented with chronic fever. On examination the child had splenomegaly. Other lab tests revealed malaria as a cause of chronic fever and splenomegaly. Regarding spleen it is derived from which of the following

- a;ectoderm
- b;endoderm
- c;mesoderm
- d;notochord

2; A 6 months infant was found to have recurrent bacterial and fungal pulmonary tract, skin, mouth and GI infections. On further questioning the mother told that after delivery the umbilical cord was separated after 46 days. Labs of this infant showed neutrophil count of 50000/ul. You suspect that this infant has been suffering from

- a; DiGeorge syndrome
- b; Wiskot Aldrich syndrome
- c; Selective IgA deficiency
- d; Chediak Higashi syndrome
- e; Neutrophil Adhesion defect
- f; Congenital leukemia

3; A 45 yrs old patient came to the physician for visual complaints. The patient told that he suffered from stroke a few months ago. On examination the patient was found to have left homonymous inferior quadrantopia. The site of lesion in this patient is

- a; right lower loop
- b; right upper loop
- c; left upper loop
- d; left lower loop
- e; both right and left upper loops
- f; both right and left lower loop

4; In the urea cycle which of the following give rise to the ornithine

- a; aspartate
- b; arginosuccinate
- c; fumarate
- d; citrulline
- e; arginine

5; A 22 yrs old male was brought to the physician for abnormal movements of the body parts. The brother of the patient told the physician that these movements usually start in left arm and then gradually spread to the whole left side of body. On further questioning it was revealed that the patient suffered from meningitis a few months ago. Physician prescribed the patient a drug for abnormal movements. After a few days the patient was again brought to the physician for the severe rash on the body. You suspect that this patient would have been prescribed

- a; carbamazepine
- b; phenytoin
- c; clozapine
- d; lamotrigine
- e; gabapentin

6; A 32 yrs old forest ranger from southern USA came to the physician with the complaints of fever, malaise, headache and a rash. The patient told that this rash appeared first on the wrists, forearms and ankles and then spread to the other body parts including palms and soles. On examination there was an eschar on the right arm with swelling of regional lymph nodes. Rocky mountain spotted fever was suspected. In this disease the rash usually appears

- a; immediately after tick bite
- b; after 10 hours of tick bite
- c; after 12 hours of tick bite
- d; after 18 hours of tick bite
- e; after 24 hours of tick bite
- f; after 72 hours of tick bite

7; A 55 yrs old man who had long standing poorly controlled diabetes and hypertension came to the emergency with complaints of severe chest pain radiating to back. On examination he had BP of 65/40mmHg, heart rate 125/min, jugular venous pulse was elevated and heart sounds were found to be muffled. The patient died later. You suspect that this patient had

- a; MI due to atherosclerosis
- b; Pulmonary embolism
- c; rupture of aortic aneurysm
- d; aortic dissection
- e; ventricular tachycardia
- f; ventricular fibrillation
- g; acute pancreatitis

8; A 23 yrs old male came to the physician with complaints of chest pain and shortness of breath and syncope. The patient gave the history that these conditions were aggravated by exercise. On examination the patient had following findings

double impulse at the apex

mid systolic murmur at the base of heart

Jerky pulse

Palpable left ventricular hypertrophy

Pansystolic murmur at mitral area

Which of the following drug can be given to the patient to relieve his symptoms

a; captopril

b; nitroglycerin

c; hydralazine

d; atenolol

e; digoxin

9; A child was brought to the pediatrician by his mother for the skin lesions. On examination the physician noted that child had hypo pigmented skin lesions under the wood light examination and uneven thickened skin areas. Retinal hamartomas were also seen. Later a tumor of heart was found. This child has been suffering from

a; Sturge Weber syndrome

b; Bourneville disease

c; von Hippel Lindau disease

d; melanoma

10; A patient was found to have gait problems, nystagmus intention tremors and hypotonia. A cerebellar lesion was suspected. The patient was asked to close his eyes and he fell on the left side. The site of lesion in this patient is

a; right cerebellum

b; left cerebellum

c; spinocerebellar tract

d; superior cerebellar peduncle

11; A 55 yrs old heavy smoker presented with the complaints of dyspnoea. On examination the patient had wheezing and cyanosis. Which of the following is found during pulmonary function tests in such patients

a; increased lung recoil and FRC

b; decreased lung recoil and FRC

c; increased lung recoil and decreased FRC

d; decreased lung recoil and increased FRC

12; A 22 yrs old intravenous drug abuser presented to the physician with complaints of fever, headache and hematuria. On examination the patient had painful nodules on hands and feet, hemorrhages under the nail beds and in retina. Infective endocarditis was suspected. Which of the following bacteria is the most common cause of infective endocarditis in such patients

- a; strep. Viridans
- b; Candida
- c; staph. aureus
- d; strep pneumoniae

13; A 45 yrs old lady came to the physician for complaints of difficulty in climbing stairs and standing from sitting position, joint pains, difficulty in swallowing and pain in the fingers on exposure to cold. On examination the woman had erythematous rashes on the elbows and knuckles. Based on the above information you suspect that this woman has

- a; progressive systemic sclerosis
- b; CREST syndrome
- c; dermatomyositis
- d; adult polymyositis
- e; childhood dermatomyositis

14; A 33 yrs old male was being treated for syphilis with penicillin. The patient developed mild fever, headache, malaise and muscle aches. The physician should have added which of the following to prevent this condition

- a; erythromycin
- b; steroids
- c; sulfa drug
- d; calvulanic acid
- e; none of above

15; A patient of Hodgkin's lymphoma was being treated with MOPP regimen. Over the course of time the patient developed areflexia, peripheral nerve involvement and paralytic ileus. Which of the following may be responsible for above complaints

- a; mechlorethamine
- b; procarbazine
- c; prednisone
- d; oncovin
- e; methotrexate

16; A 17 yrs old girl with tall habitus, long arms and tapering fingers was brought to the ER with complaints of dyspnoea, cough and edema of feet. Examination of the patient revealed a pansystolic murmur and rales in the lungs. Chest x rays showed cardiomegaly. In such patients the common cardiac valve involved is

- a; pulmonic
- b; mitral
- c; tricuspid
- d; none of above

17; A patient was brought to ER due to a road side accident. Brother of the patient revealed that the patient had been suffering from various viral and fungal infections previously. A donor for blood transfusion was arranged because patient was bleeding. After the transfusion the patient was found to have skin rash, diarrhea and jaundice. Serum calcium levels of this patient were consistently low. You suspect that this patient has been suffering from

- a; selective IgA deficiency
- b; Chediak Higashi syndrome
- c; thymic hypoplasia
- d; CVID
- e Wiskot Aldrich syndrome
- f; thymoma

18; Fifth pharyngeal arch is associated with which of the following cranial nerve

- a; cranial nerve 5
- b; cranial nerve 7
- c; cranial nerve 9
- d; cranial nerve 10
- e; none of above

19; A 50 yrs old hypertensive male was prescribed hydrochlorthiazide for hypertension. A few days after the start of treatment the patient presented with complaints of weakness and dryness of the mucous membranes. His serum showed the following chemistry

pH 7.51
HCO₃ 36mEq/L
PCO₂ 48mmHg
Na 130 mEq/L
K 2.9mEq/L

You suspect that this male has been suffering from

- a; resp. acidosis with full compensation
- b; resp. acidosis with partial compensation
- c; metabolic acidosis with partial compensation
- d; metabolic alkalosis with full compensation
- e; metabolic alkalosis with partial compensation

20; A patient in the ICU developed fever, tachycardia, hypotension and oozing of blood from punctured sites. DIC was suspected due to severe chest infection.

The lab investigations in this patient will show the following

- a; normal PT and aPTT
- b; Normal PT but increased aPTT
- c; decreased fibrinopeptide A
- d; increased fibrinopeptide A

21; A 5 months old male infant who had delayed milestones from a Jew family was brought to the pediatrician for this problem. The infant was found to be blind.

The condition of the infant persisted and he died at 3 years of age. The brain biopsy showed presence of foamy cells with whorled lysosomes. Which of the following enzyme was deficient in this infant

- a; hexoaminidase A
- b; glucocerebrosidase
- c; sphingomyelinase
- d; alpha galactocerebrosidase

22; A patient of psychosis was brought to the physician. An Antipsychotic was prescribed to the patient. The patient went well with medication but after 7 months of therapy the brother of the patient told the physician that he used to show abnormal movements of lips, buccal cavity and muscles. Tardive dyskinesia was suspected. If atropine is given to such patients, it will

- a; decrease the severity of symptoms of tardive dyskinesia
- b; it will aggravate the symptoms of tardive dyskinesia
- c; it will first aggravate and then decrease the symptoms of tardive dyskinesia
- d; it will do nothing with tardive dyskinesia

23; An AIDS patient who had many pets at home came to the physician for the complaint of skin lesions. On examination he had abnormal proliferation of blood vessels of the skin. On the basis of above information you suspect that this patient has

- a; kaposi's sarcoma
- b; bacillary angiomatosis
- c; pasteurella multicoida infection
- d; herpes infection

24; A short statured 16 yrs old girl came to gynecologist for amenorrhea. On examination the physician noted that the girl had webbed neck and increased angles of arms. Turner's syndrome was suspected. In these patients there is usually

- a; increased estradiol and decreased gonadotropins
- b; increased estradiol and increased gonadotropins

- c; decreased estradiol and decreased gonadotropins
- d; decreased estradiol and increased gonadotropins

25; A 2 yrs old child was brought to the pediatrician by his mother for poor vision. On examination the physician noted that there was B/L squint, and the pupil of both eyes were found to be white. Retinoblastoma was diagnosed later. These patients are at increased risk of developing

- a; paget's disease of bone
- b; pancreatic ca
- c; osteosarcoma
- d; squamous cell ca of lung
- e; none of above

26; A 39 yrs old male came to the physician for earache. The physician diagnosed him as a case of otitis media and prescribed him medication. Patient did not take the drugs and 3 days later presented to ER with fever, rigors, severe pain in the eye, headache and drowsiness. Sixth nerve on the right side was found to be involved with papilledema. The patient was administered intravenous antibiotics and his condition resolved. You suspect that this patient had

- a; stroke
- b; subarachnoid hemorrhage
- c; cavernous sinus thrombosis
- d; meningitis
- e; mastoid abscess
- f; temporal lobe abscess

27; A 30 yrs old female came to the physician with complaints of dry eyes and dry mouth. Blood glucose of this female was found to be 88mg/dl. An autoimmune disease was suspected for this woman. Which of the following is the confirmatory test to diagnose the condition

- a; presence of Rheumatoid factor in blood
- b; presence of ANA antibodies in the serum
- c; presence of anti-SS-A/Ro antibodies
- d; lip biopsy
- e; presence of Scl-70 antibodies

28; A 12 yrs old female was brought to pediatrician by her parents for abdominal pain, vomiting, inability to pass the flatus and oliguria. The mother told that the girl was suffering from a viral upper respiratory tract infection a few days ago. On examination the patient had a maculopapular rash on the buttocks. You suspect that this girl has been suffering from

- a; polyarteritis nodosa
- b; wegner's granulomatosis
- c; intestinal obstruction
- d; measles
- e; meningococemia

f; henoch-schonlein purpura

29; A 4 yrs old child was brought to the physician for the complaints of fever, sore throat and cough for a few days. On examination the child had barky type of cough with mild flaring and tachypnea. You suspect that this child has been suffering from

- a; pertussis
- b; epiglottitis
- c; croup
- d; streptococcal pneumonia

30; A 22 yrs old female came to the physician with complaints of visual problems. The patient stated that these problems occur off and on. On examination the woman had defective visual acuity and color vision. A central scotoma was also noted with retrobulbar neuritis. You suspect that this lady has

- a; pituitary tumor involving optic chiasma
- b; glioblastma multiforme
- c; multiple sclerosis
- d; retinoblastoma

31; A 60 yrs old male was found to have chronic fever, fatigue, weakness, epistaxis, hepatosplenomegaly and GI bleeding. The man suffered from MI later. Investigations of the patient showed the presence of Bence Jones proteins in the urine. ESR was 120mm in 1st hour. Blood film showed eosinophilia. Your diagnosis about this male is

- a; CML
- b; CLL
- c; multiple myeloma
- d; waldenstorm's macroglobulinemia
- e; myeloid metaplasia with myelofibrosis

32; A male infant was found to have leakage of urine from umbilicus. This can be due to

- a; persistence of umbilical cord
- b; persistence of urachus
- c; failure of anterior abdominal wall formation
- d; ectopic bladder

33; A newborn infant was found to have the congenital heart disease. His oxygen saturation values are as follows

	<u>Normal value</u>	<u>Patient</u>
Left ventricle	95%	95%
Left atrium	95%	95%
Right atrium	75%	85%
Right ventricle	75%	85%
Pulmonary artery	75%	85%
Pulmonary vein	95%	95%

You suspect that this patient has

- a; Patent ductus arteriosus
- b; VSD
- c; ASD
- d; transposition of great vessels

34; Regarding antipsychotic drugs which of the following is most commonly associated with extrapyramidal effects

- a; thioridazone
- b; clozapine
- c; haloperidol
- d; molindone

35; An 55 yrs old male living in an air conditioned nursing home developed high grade fever, cough, headache and chest pain. The patient was also found to have abnormal higher mental functions. Chest x rays showed a pneumonic shadow in the left upper zone. Which of the following antibiotics would have been effective initially for this patient

- a; ampicillin
- b; amoxicillin
- c; clindamycin
- d; erythromycin

36; A 38 yrs old male who had chronic complaints of flushing and diarrhea presented with nausea, vomiting, anorexia and jaundice. Urine examination of the patient showed the presence of 5-hydroxyindolacetic acid. You suspects that primary lesion in this patient will be present in

- a; rectum
- b; appendix
- c; pancreas
- d; ascending colon
- e; ileum

37; A 54 yrs old smoker presented with the complaints of weakness of the muscles after exertion. Lung X rays of the patient showed presence of a tumor and Eaton Lambert syndrome was suspected. Which of the following is associated with this syndrome

- a; squamous cell ca of lung
- b; oat cell ca of lung
- c; bronchogenic ca
- d; mesothelioma

38; A 12 yrs old boy from a Jew family was brought to the pediatrician for complaints of fatigue, repeated infections and epistaxis. On examination the boy had hepatosplenomegaly. Liver biopsy of the boy showed presence of fibrillary macrophages. Which of the following enzymes is deficient in this boy

- a; hexosaminidase A
- b; arylsulfatase
- c; alpha galactocerebrosidase
- d; glucocerebrosidase

39; A 44 yrs old male in the ER was found to have right sided spastic hemiparesis, right sided spastic lower face and dilated pupil, ptosis and down and out eyeball on the left side. Which of the following artery is involved in causing the above presentation

- a; anterior inferior cerebellar artery
- b; posterior inferior cerebellar artery
- c; anterior cerebral artery
- d; middle cerebral artery
- e; posterior cerebral artery

40; A health worker in a hospital of Texas had hepatitis B. The patient could not recover from hepatitis and was labeled a case of chronic active hepatitis B. Which of the following antigens show that this patient has been suffering from chronic active hepatitis B

- a; HBc antigen and HBe antigen
- b; HBs and HBc antigen
- c; HBs and HBe antigen
- d; none of above

41; A 59 yrs old female presented with complaints of pain and progressively distension of the abdomen. On examination there was no shifting dullness. Rectal examination showed rectal induration and bilateral adnexal masses were noted. You suspect that this female has

- a; cystic teratoma
- b; bilateral endometriomas
- c; serous cystadenocarcinoma
- d; dysgerminoma
- e; meig's syndrome

42; A 54 yrs old army retired officer came to the physician with complaints of reddish color urine in the morning on several times, fatigue and bleeding episodes. On examination the patient was pale and his investigations showed thrombocytopenia, anemia and neutropenia. Which of the following test can be done to find out the cause of anemia in this patient

- a; serum for anti nuclear anti bodies
- b; osmotic fragility test
- c; hemoglobin for sickle cell
- d; water sugar test

43; Comparing glucokinase with hexokinase , glucokinase has

- a; high affinity for glucose
- b; high Km
- c; present in most tissue of the body
- d; low Vmax

44; A 50 yrs old male came to the emergency with complaints of severe chest pain radiating to the left arm with nausea, vomiting and sweating. ECG showed ST segment elevation in many leads and MI was diagnosed. The man later suffered from arrhythmia for which quinidine was given to the patient along with other medications. Which of the following should not be given with quinidine

- a; aspirin
- b; streptokinase
- c; urokinase
- d; heparin
- e; digoxin

45; A 26 yrs old diabetic mother gave birth to a female child in the OB ward. The infant was normal at time of birth but within a few hours began to show labored breathing, cyanosis and flaring. The infant could not receive any therapy and died. Apart from hypoxemia what may be the other cause of death in this baby

- a; DIC

- b; neutropenia
- c; intraventricular hemorrhages
- d; ventricular septal defects

46; A girl with failure to thrive was brought to the pediatrician with complaints of epistaxis and bruising of the skin without any significant trauma. The mother of girl also gave the history that she had been suffering from various respiratory tract infections. Sweat test was found abnormal and a diagnosis of cystic fibrosis was made. What is the mechanism of thick respiratory secretions in these patients

- a; failure to absorb chloride
- b; failure to secrete water
- c; failure to secrete chloride
- d; failure to secrete Na

47; A 22 yrs old college student developed fever, sore throat, lymphadenopathy and splenomegaly. Serology of the patient showed the presence of heterophil antibodies against sheep red blood cells. Infectious mononucleosis was diagnosed. Which of the following is associated with negative heterophilic mononucleosis

- a; herpes simplex 1
- b; herpes simplex 2
- c; CMV
- d; varicella

48; Which of the following drug induce hepatic P-450 system

- a; erythromycin
- b; sulfonamide
- c; isoniazid
- d; ketoconazole
- e; rifampin

49; A 56 yrs old heavy smoker patient presented to the physician with the complaints of burning sensation during voiding. X rays of the patient showed the presence of kidney stones. Labs of this patient showed a calcium level of 20.5 mg/dl. His PTH levels were below normal. A paraneoplastic syndrome was suspected. Which of the following is not associated with hypercalcemia

- a; squamous cell ca of lung
- b; oat cell ca of lung
- c; renal adenocarcinoma
- d; breast cancer
- e; ovarian cancer

50; A 9 months old infant was found to have cardiomegaly, hepatomegaly and muscular weakness. The infant died at the age of 1 year due to heart failure.

Which of the following enzyme was deficient in this infant

- a; glucose 6-phosphatase
- b; amylo1,6 glucosidase
- c; amylo 4,6 glucosidase
- d; phosphorylase kinase
- e; lysosomal alpha glucosidase

Answer Key Power Prep Test

1; c	27; d
2; e	28; f
3; b	29; c
4; e	30; c
5; d	31; d
6; f	32; b
7; d	33; c
8; d	34; c
9; b	35; d
10; b	36; e
11; d	37; b
12; c	38; d
13; d	39; e
14; b	40; c
15; d	41; c
16; b	42; d
17; c	43; b
18; e	44; e
19; e	45; c
20; d	46; c
21; a	47; c
22; b	48; e
23; b	49; b
24; d	50; e
25; c	
26; c	

SAMPLE MNEMONICS

1;Association of diseases with HLA-B27

1;Uncle Reiter at the age of 27 used spoon due to sore throat but later developed GI problems this mnemonic is describing the relationship of HLA-B27 with the diseases.

Uncle Ankylosing spoon spondylitis

sore throat psoriasis

GI problems Inflammatory bowel disease

2;Autosomal Dominant diseases mnemonics

All the families Von (won) prizes by satying at the top in hunting competition while Mr. Marfan's adult kids won prizes by moving round and round the world.

This is a mnemonic to remember AD(autosomal dominant diseases). The explanation is as follows

Families shows that the diseases who have family word at the beginning are AD like Familial Adenomatous polyposis

Von shows the diseases which have word Von at the beginning are aslo AD like Von Hippel Lindau disease

At the top shows Dominance (AD)

Hunting shows Huntington's disease

Marfan shows Marfan's syndrome

Adult Kids shows Adult polycystic kidney disease

3;X Linked recessive diseases

Mr. Bruton and Leschnon poured Freckle cream of Dosho on their White Fabric shirt and Coat, but later peeled shirt and coat with SIX number blade of Hunter company.

Bruton Bruton's Agammaglobulinemia

Leschnon Lescch Nyhan syndrome

Freckle Fragile X syndrome

Disho Duchenne's Muscular dystrophy

Fabrics Fabry's disease

Coat Wiskott Aldrich syndrome

Peeled hemophilia A and B

White Albinism

SIX G6PD deficiency

Hunter Hunter's syndrome

4;Alpha Fetoprotein

Test the Yolk of Ova with Live Fetoscope

Alpha fetoprotein is a tumor marker of

Test testes

Ova Ovaries

Live liver

Fetoscope alpha fetoprotein

Yolk yolk sac tumor

5;Malignant Melanoma

I was Displeased to see Fair people bathing in the Sunlight with Deep interest in Melan.

Displeeased shows dysplastic nevus as precursor of melanoma

Fair, SunLight shows risk factors for Melanoma. i-e fair colored people with excessive sunlight exposure

Deep depth of lesion determines metastasis

Melan melanoma