

pg questions set 3

Question 12: Which of the following is an antiapoptotic gene ?

- A) C-myc
- B) P53
- C) bcl-2
- D) bax

Question 13: The following is not a feature of Alzheimer's disease?

- A) Neurofibrillary tangles
- B) Senile (neuritic) plaques
- C) Amyloid angiopathy
- D) Lewy bodies

Question 14: Which of the following is an autosomal dominant metabolic disorder?

- A) Cystic fibrosis
- B) Phenylketonuria
- C) alpha - 1 - antitrypsin deficiency
- D) Familial hypercholesterolemia

Question 15: To which of the following events the good outcome in Neuroblastoma is associated with ?

- A) Diploidy
- B) N-myc amplification
- C) Chromosome 1 p deletion
- D) Trk A expression

Question 16: Serum C3 is persistently low in the following except?

- A) Post streptococcal glomerulonephritis
- B) Membranoproliferative glomerulonephritis
- C) Lupus nephritis
- D) Glomerulonephritis related to bacterial endocarditis

Question 17: In which of the following conditions the level of creatinine kinase-I increases?

- A) Myocardial Ischemia
- B) Brain Ischemia
- C) Kidney damage
- D) Electrical cardioversion

Question 18: Kinky - hair disease is a disorder where an affected child has peculiar white stubby hair, does not grow, brain degeneration is seen and dies by age of two years. Mrs. A is hesitant about having children because her two sisters had sons who had died from kinky hair disease. Her mother's brother also died of the same condition. Which of the following is the possible mode of inheritance in her family?

- A) X-linked recessive
- B) X-linked dominant
- C) Autosomal recessive
- D) Autosomal dominant

Question 19: Males who are sexually underdeveloped with rudimentary testes and prostate glands, sparse pubic and facial hair, long arms and legs and large hands & feet are likely to have the chromosome complement of?

- A) 46, XYY
- B) 46, XY
- C) 46, XXY
- D) 46, X

Question 20: Which of the following is the feature of Y chromosome?

- A) Acrocentric
- B) Telocentric
- C) Submetacentric

D) Metacentric

Question 21: In Budd Chiari syndrome, the site of venous thrombosis is?

- A) infrahepatic inferior vena cava
- B) infrarenal inferior vena cava
- C) hepatic veins
- D) portal vein

Question 22: In patients with cirrhosis of the liver the site of obstruction in the portal system is in the?

- A) Hepatic vein
- B) Post sinusoidal
- C) Extra hepatic portal vein
- D) Sinusoids

Question 1: Clinically significant drug interaction occurs between pyridoxine and all the following drugs except?

- A) Isoniazid
- B) Cyclosporine
- C) Levodopa
- D) Hydralazine

Question 2: Which of the following statements is not true about tacrolimus?

- A) It is a macrolide antibiotic
- B) It is indicated for the prophylaxis of organ transplant rejection
- C) Glucose intolerance is a well recognized side effect
- D) It can be safely administered with any nephrotoxic drug

Question 3: All of the following anticancer agents cause bone marrow depression except?

- A) Chlorambucil
- B) Daunorubicin
- C) Doxorubicin
- D) Flutamide

Question 4: Which of the following is not a nucleoside reverse transcriptase inhibitor?

- A) Zalcitabine
- B) Lamivudine
- C) Nevirapine
- D) Didanosine

Question 5: A 30 year old pregnant woman developed tuberculosis. Which of the following antitubercular drugs should not be used?

- A) INH
- B) Rifampicin
- C) Streptomycin
- D) Ethambutol

Question 6: Patients suffering from multidrug resistant tuberculosis can be treated with all of the following drugs except?

- A) Tobramycin
- B) Amikacin
- C) Ciprofloxacin
- D) Clarithromycin

Question 7: A known sputum positive pulmonary tuberculosis patient currently on INH, rifampicin, pyriziamide and ethambutol is found to be HIV positive. His CD4 count was 100 / μ L and viral load was more than 50,000 copies/mL. Which of the following antiretroviral drugs should be avoided?

- A) Indinavir
- B) Lamivudin

- C) Ritonavir
- D) Efavirenz

Question 8: A post-operative patient developed septicemia and was empirically started on combination chemotherapy by a new resident doctor. However, when the patient did not respond even after 10 days of antibiotics treatment, the review of the charts was done. It was found that the resident doctor had started the combination of antibiotics which was mutually antagonistic in action. Which one of the following is the most likely combination that was given?

- A) Vancomycin and Amikacin
- B) Cephalexin and Gentamicin
- C) Ampicillin and Chloramphenicol
- D) Ciprofloxacin and Piperacillin

Question 9: Haemophilus influenzae has been isolated from the CSF of a two year old boy suffering from meningitis. The strain is beta-lactamase producing and resistant to chloramphenicol. The most appropriate antimicrobial choice in such a situation is?

- A) Trimethoprim-sulphamethoxazole combination
- B) Ciprofloxacin
- C) Third-generation cephalosporin
- D) Vancomycin

Question 10: Which of the following fluoroquinolones does not require dose adjustment in a patient with creatinine clearance of < 50 mg/min?

- A) Ciprofloxacin
- B) Trovafloxacin
- C) Lomefloxacin
- D) Sparfloxacin

Question 11: Which of the following antimicrobials has antipseudomonal action?

- A) Cefpodoxime proxetil
- B) Ceforanide
- C) Cefotetan
- D) Cefoperazone

Question 12: Which of the following statements is not true regarding sulfonamides?

- A) Sulfasalazine is absorbed well from gastrointestinal tract
- B) Crystalluria can occur with sulfonamide administration
- C) Sulfonamide administration to newborn may cause kernicterus
- D) Sulfonamides are of value in treatment of infections due to Nocardia species

Question 13: Which one of the following statements about biguanides is not true?

- A) Do not stimulate insulin release
- B) Decrease hepatic glucose production
- C) Renal dysfunction is not a contraindication for their use
- D) Can be combined with sulfonylureas

Question 14: All of the following statements about an alpha-glucosidase inhibitor are true except?

- A) Reduces intestinal absorption of carbohydrates
- B) Effective in both type 1 and type 2 diabetes mellitus
- C) Hypoglycemia is a common and serious side effect
- D) Can be used with other oral hypoglycemic agents

Question 15: Drug implicated for prolonging QT interval in a premature baby is?

- A) Domperidone
- B) Metoclopramide
- C) Cisapride
- D) Omeprazole

Question 16: A patient of peptic ulcer was prescribed ranitidine and sucralfate in the morning hours. Why is this combination incorrect?

- A) Ranitidine combines with sucralfate and prevents its action
- B) Combination of these two drugs produces serious sideeffects like agranulocytosis
- C) Ranitidine decreases the gastric pH so sucralfate is not able to act
- D) Sucralfate inhibits absorption of ranitidine

Question 17: All of the following are true about amiodarone induced thyroid dysfunction except?

- A) Hyperthyroidism is common in iodine deficient areas
- B) Hypothyroidism is more common in men
- C) Amiodarone inhibits deiodinase activity
- D) Amiodarone therapy is associated with initial reduction of serum T4 levels

Question 18: Which of the following is not an adverse effect of chronic amiodarone therapy?

- A) Pulmonary fibrosis
- B) Hypothyroidism
- C) Hyperthyroidism
- D) Systemic lupus erythematosus

Question 19: All of the following statements regarding interactions of levodopa are correct except?

- A) In parkinsonism, phenothiazines reduce its efficacy
- B) It is a prodrug
- C) Pyridoxine reduces effect of levodopa in parkinsonism
- D) Domperidone blocks levodopa induced emesis and its therapeutic potential

Question 20: Which of the following action is ascribed to delta

type of opioid receptors?

- A) Supraspinal analgesis
- B) Respiratory depression
- C) Euphoria
- D) Reduced intestinal motility

Question 21: Morphine can be used in all the following

conditions except?

- A) Head injury
- B) Asthma
- C) Hypothyroidism
- D) Diabetes

Question 22: A 15 year old boy with epilepsy on treatment with combination of valproate and phenytoin has good control of seizures. Levels of both drugs are in the therapeutic range.

All of the following adverse effects can be attributed to valproate except?

- A) Weight gain of 5 kg
- B) Serum alanine aminotransaminase 150 IU/L
- C) Rise in serum ammonia level by 20 microgm/dL
- D) Lymphadenopathy

Question 23: Which of the following does not bind to GABA receptor chloride channels?

- A) Ethanol
- B) Alphaxolone
- C) Zolpidem
- D) Buspirone

Question 24: Sympathomimetic drugs are useful in the therapy of all of the following conditions except?

- A) Acute decompensated heart failure
- B) Hypotension
- C) Hypertension
- D) Erectile dysfunction

Question 25: In which of the following phases of clinical trial of drugs ethical clearance is not required?

- A) Phase I
- B) Phase II
- C) Phase III
- D) Phase IV

Question 26: A highly ionized drug?

- A) Is excreted mainly by the kidneys
- B) Crosses the placental barrier easily
- C) Is well absorbed from the intestine
- D) Is highly protein bound

Question 1: The enzyme associated with the conversion of androgen to oestrogen in the growing ovarian follicle is?

- A) Desmolase
- B) Isomerase
- C) Aromatase
- D) Hydroxylase

Question 2: Before the onset of puberty, the GnRH neurons are under the inhibitory control of ?

- A) Glycine
- B) Glutamate
- C) Gamma amino butyric acid (GABA)
- D) Beta-endorphin

Question 3: Sertoli cells have receptors for?

- A) Inhibin
- B) Luteinising hormone
- C) Follicle stimulating hormone
- D) Melatonin

Question 4: During acclimatization to high altitude all of the following take place except?

- A) Increase in minute ventilation
- B) Increase in the sensitivity of central chemoreceptors
- C) Increase in the sensitivity of carotid body to hypoxia
- D) Shift in the oxygen dissociation curve to the left

Question 5: The force of muscle contraction can be increased by all of the following except?

- A) Increasing the frequency of activation of motor units
- B) Increasing the number of motor units activated
- C) Increasing the amplitude of action potentials in the motor neurons
- D) Recruiting larger motor units

Question 6: The blood in the vessels normally does not clot because?

- A) Vitamin K antagonists are present in plasma
- B) Thrombin has a positive feedback on plasminogen
- C) Sodium citrate in plasma chelates calcium ions
- D) Vascular endothelium is smooth and coated with glycocalyx

Question 7: During the cardiac cycle the opening of the aortic valve takes place at the?

- A) Beginning of systole
- B) End of isovolumetric contraction
- C) End of diastole
- D) End of diastasis

Question 8: The main excitatory neurotransmitter in the CNS is?

- A) Glycine
- B) Acetylcholine
- C) Aspartate
- D) Glutamate

Question 9: One intern calculated the concentration of O₂ in blood as 0.0025 ml/ml of blood. Considering atmospheric pressure as 760 mm Hg, how much approx. O₂ tension could have been in the blood?

- A) 40 mm Hg
- B) 60 mm Hg
- C) 80 mm Hg
- D) 100 mm Hg

Question 10: Which of the following is procoagulation protein?

- A) Thrombomodulin
- B) Protein C
- C) Protein S
- D) Thrombin

Question 11: In which of the following forms the Anti diuretic hormone (ADH) is circulated in plasma?

- A) Bound to neurophysin - I
- B) Bound to neurophysin - II
- C) Bound to plasma albumin
- D) Free form

Question 1: A 41 year old woman working as an Executive Director is convinced that the management has denied her promotion by preparing false reports about her competence and have forged her signatures on sensitive documents so as to convict her. She files a complaint in the police station and requests for security. Despite all this she attends to her work and manages the household. She is suffering from?

- A) Paranoid Schizophrenia

- B) Late onset Psychosis
- C) Persistent Delusional Disorder
- D) Obsessive Compulsive Disorder

Question 2: A 16 year old boy does not attend school because of the fear of being harmed by school mates. He thinks that his classmates laugh at and talk about him. He is even scared of going out to the market. He is most likely suffering from?

- A) Anxiety neurosis
- B) Manic Depressive Psychosis
- C) Adjustment reaction
- D) Schizophrenia