

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

الجمهورية اليمنية

المجلس الطبي

فريق قلم صيدلي

REPUBLIC OF YEMEN

Medical Council
Pharmacist Pen Team

قلم صيدلي
PHARMACIST PEN FOR TRAINING

إعلان

مناولة المائدة

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بكالوريوس صيدلي

إعداد وتجميع فريق قلم صيدلي

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نور موقعنا للاطلاع على جميع النافذ والملخصات والتفريغات المهمة في عالم الصيدلة

I: Choose the best answer for the following questions:

1) Which of the following is a significant unwanted effect of the drug named?

- a) Constipation with verapamil
- b) Heart failure with hydralazine
- c) Hemolytic anemia with atenolol
- d) Hypokalemia with aliskiren's...
- e) lupus -like syndrome with hydrochlorothiazide

2) Comparison of prazosin with atenolol shows that?

- a) Both decrease heart rate
- b) Both increase cardiac output
- c) Both increase renin secretion
- d) Both increase sympathetic outflow from the CNS

3) A patient with hypotension and angina is referred for treatment Metoprolol and verapamil are among

- a) Diarrhea
- b) Hypoglycemia
- c) increased PR interval
- d) Tachycardia

4) A -45- year- old man is brought to the emergency department with mental obtundation he is found to have a blood pressure of 220/160 and retinal hemorrhages which one of the following is used in severe hypertensive emergencies is short acting acts a G protein - coupled receptor and must be given by intravenous infusion?

- a) Aliskiren's
- b) Captopril
- c) Fenoldopam
- d) Hydralazine
- e) Losartan

5) Which of the following is very short acting and acts by releasing nitric oxide?

- a) Atenolol
- b) Captopril
- c) Diltiazem
- d) Nitroprusside

6) A- 70-year -old retired businessman is admitted with a history of recurrent heart failure and metabolic alkalosis which of the following drugs is most appropriate for the treatment of his edema?

- a) Acetazolamide
- b) Digoxin
- c) Dobutamine
- d) Eplerenone

7) Aspirin is believed to inhibit clotting by its action on which of the following endogenous substances?

- a) Endorphin A
- b) Xanthine oxidase
- c) Fibrinogen
- d) Cyclooxygenase

8) prolonged use of organic nitrates (nitroglycerin) is likely to result in the development of?

- a) hepatotoxicity
- b) tolerance
- c) aplastic anemia
- d) nephrotoxicity

9) which of the following statement is true about regular soluble insulin?

- a) it is suspension
- b) it may be administered either SC Or IV
- c) it is used orally
- d) it is shorter acting than lispro insulin

10) which one of the following drugs is indicated for the treatment of primary nocturnal enuresis?

- a) Clozapine
- b) Desmopressin acetate
- c) Acetazolamide
- d) Mannitol

11) which one of the following is an effect of atropine on the human body?

- a) decreased heart rate
- b) decreased sweating
- c) produces miosis
- d) constipation

12) The safer analgesic for pregnant woman near term is?

- a) Celecoxib
- b) Paracetamol
- c) Aspirin
- d) Diclofenac

13) significant interaction with theophylline?

- (A) Cimetidine (B) Ranitidine
(C) omeprazole (D) Antacids

14) interaction with SSRI can cause serotonin syndrome?

- (A) Dextromethorphan (B) codeine
(C) Tramadol (D) a and c

15) More potent dermatologic preparation?

- (A) Betamethasone ointment (B) Betamethasone cream
(C) hydrocortisone (D) dexamethasone

16) Not used for dermatophyte fungal skin infection?

- (A) Nystatin (B) Miconazole
(C) ketoconazole (D) Amphotericin B

17)B- After your patient has been receiving digoxin for 3 wk. he presents to the emergency department with an arrhythmia which one of the following is most likely to contribute to the arrhythmogenic effect of digoxin?

- a) increased parasympathetic discharge
b) increased intracellular calcium
c) decreased sympathetic discharge
d) decreased intracellular ATP

18) A patient who has been taking digoxin for several years for atrial fibrillation and chronic heart failure is about to receive atropine for another condition A common effect of digoxin (at therapeutic blood levels) that can be entirely blocked by Atropin is?

- (A) Decreased appetite (B) Headaches
(C) increased atrial contractility (D) increased PR interval on ECG

19) A-65-year -old woman has been admitted to the coronary care unit with a left ventricular myocardial infarction she develops acute severe heart failure with marked pulmonary edema but no evidence of peripheral edema which one of the following drugs would be most useful?

- (A) Digoxin (B) furosemide
(C) Minoxidil (D) propranolol

20) A-72- year- old woman has long – standing heart failure.

which one of the following drugs has been shown to reduce mortality in chronic heart failure?

- a) Digoxin
- b) Dobutamine
- c) furosemide
- d) Spironolactone

21) Nerves in the human body that transmit their impulses by releasing acetylcholine are known as... nerves?

- (A) adrenergic
- (B) cholinergic
- (C) sympathetic
- (D) anticholinergic...

22) Morphine can be expected to produce which of the following pharmacological effects?

- (A) dilation of the pupils
- (B) respiratory depression
- (C) diarrhea
- (D) None of them

23) Repaglinide and Rosiglitazone are drugs for?

- (A) hypertension
- (B) Epilepsy
- (C) Diabetes mellitus
- (D) arrhythmia

24) Lactulose is?

- (A) is a laxative
- (B) a diuretic
- (C) is an artificial sweetener
- (D) a drug for diabetes..

25) The chemical name of Atenolol is?

- (A) 1- isopropyl amino – 3- (4- acetamido phenyl) -2 – propanol
- (B) 1- isopropyl amino – 3- (4- acetamido phenoxy) -2 – propanol
- (C) 1- isopropyl amino – 3- naphtha – 2 - propanol
- (D) none of the above

26) prazosin characterized by the following except?

- (A) consists of quinazoline ring piperazine ring & acyl moiety
- (B) blocks α_1 receptor without causes reflux tachycardia
- (C) blocks α_2 receptor without causes reflux tachycardia

27) homatropine is an ester of?

- (A) scopine and tropic acid
- (B) tropine and mandelic acid**
- (C) scopin and mandelic acid
- (D) none of the above

28) The replacement of 3 α – methyl group from simvastatin by OH resulting in?

- a) lovastatin**
- b) pravastatin
- c) none of the above

29) The mechanism of action of methyldopa includes?

- a) α – 2 stimulants at C.N.S
- b) L-dopa decarboxylase inhibitor
- c) formation of false neurotransmitters
- d) all of the above**

30) Nitroglycerin may be prepared from?

- (A) glycerin + mixture of sulfuric acid & fuming of nitric acid
- (B) glycerin + mixture of fuming of sulfuric acid & nitric acid**
- (C) glycerin +mixture of fuming of phosphoric acid & nitric acid

31) cardiac arrhythmias are caused by ?

- (A) disturbances in impulse formation
- (B) disturbances in impulse conduction
- (C) combination of a & b factors**
- (D) all of the above

32) A 50 - year – old man has a history of frequent episodes of renal colic with calcium - containing renal stones. A careful workup indicates that he has a defect in proximal tubular calcium reabsorptions which result on high concentration of calcium salt in the tubular urine.

the most useful diuretic agent in the treatment of recurrent calcium stones is?

- (A) chlorthalidone**
- (B) Diazoxide
- (C) Ethacrynic acid
- (D) Mannitol

33) which of the following is an important effect of chronic therapy with loop diuretics?

- (A) Decreased urinary excretion of calcium
- (B) Elevation of blood pressure
- (C) Elevated of pulmonary vascular pressure
- (D) Metabolic alkalosis**

34) A 68 – year – old man with history of chronic heart failure goes on vacation and abandons his low – salt diet – three days later he develops severe shortness of breath and is admitted to the local hospital emergency department with significant pulmonary edema the first line drug of choice in most cases of acute decompensation in patients with chronic heart failure is ?

- (A) Atenolol
- (B) captopril
- (C) Carvedilol
- (D) furosemide

35) A 5- year – old child was vomiting and was brought to the emergency department with sinus arrest and a ventricular rate of 35 bmp. An empty bottle of his uncle's digoxin was found where he was playing which of the following is the drug of the following is the drug of choice in treating a severe overdose of digoxin?

- (A) Digoxin antibodies
- (B) lidocaine infusion
- (C) Magnesium infusion
- (D) phenytoin by mouth

36) A – 70 – year old woman is admitted to the emergency department because of a fainting spell at home ... she appears to have suffered no trauma from her fall but her blood pressure is 120/60 when lying down and 60/20 when she sits up. neurologic examination and an ECG are within normal limits when she is lying down.

Questioning reveals that she has recently started taking water pills (diuretics) foot a heart condition which of the following drugs is the most likely cause of her fainting spell?

- (A) Acetazolamide
- (B) Amiloride
- (C) Furosemide
- (D) Hydrochlorothiazide
- (E) Spironolactone

37) A graduate student is planning to make a high – altitude climb in south America while on vacation He will not have time to acclimate slowly to altitude A drug that is useful in preventing high – altitude sickness is?

- (A) Acetazolamide
- (B) Amiloride
- (C) Desmopressin
- (D) Demeclocycline

38) A – which of the following is the best – documented mechanism of beneficial action of cardiac glycosides?

- (A) A decrease in calcium uptake by the sarcoplasmic reticulum
- (B) An increase in ATP synthesis
- (C) A modification of the actin molecule
- (D) An increase in systolic cytoplasmic calcium levels

39) which of the following has been to prolong life in patient with chronic congestive heart failure in spite of having a negative inotropic effect on cardiac contractility?

- (A) Carvedilol
- (B) Digoxin
- (C) Dobutamine
- (D) Enalapril

40) Note a safe laxative in pregnancy

- (A) lactulose
- (B) Senna
- (C) Bisacodyl
- (D) none of the above

41) A – 62- year – old man with advanced prostate cancer is admitted to the emergency department with mental obtundation an electrolyte panel shows a serum calcium of 16.5 (normal 8.5 – 10.5 mg/dL) which of the following therapies would be most useful in the management of severe hypercalcemia?

- (A) Acetazolamide plus saline infusion
- (B) Furosemide plus saline infusion
- (C) Mannitol plus saline infusion
- (D) Hydrochlorothiazide plus saline infusion
- (E) Spironolactone plus saline infusion

42) The principle source of estrogens biosynthesis is?

- (A) cholesterol
- (B) ergosterol
- (C) Cholesterin
- (D) none of the above

43) The synthesis of estradiol and estradiol dipropionate is realized from?

- (A) estriol
- (B) estrone
- (C) estradiol
- (D) non of the above

44) The metabolism of estrogens is?

- (A) only oxidation
- (B) only conjugation
- (C) oxidation and conjugation
- (D) none of the above

45) Estrogen conjugate?

- (A) primarily in the liver in which glucuronic acid and to lesser degree with sulfate.
- (B) secondary in the liver in which sulfate and to lesser with glucuronic acid.
- (C) primarily in the liver in which sulfate and to lesser degree with glucuronic acid.
- (D) none of the above.

46) progestins are compounds that related to?

- (A) more than one class
- (B) only two classes
- (C) only one class
- (D) none of the above.

47) The largest use of progestins is for?

- (A) only birth control
- (B) endometrial cancer
- (C) only contraception
- (D) contraception and birth control

48) The primary rout for metabolic inactivation of testosterone and dihydrotestosterone is?

- (A) only oxidation
- (B) conjugation and reduction
- (C) oxidation and Conjugation
- (D) only reduction..

49) Which of the following consider the stander method for quantification of DNA or RNA?

- a) Chemical method
- b) Instrumental method
- c) UV-spectrometric method
- d) None of the above

Q2 put true (T) or false (F) on the following statements ?

- 1- Adding 17 – a- alkyl groups of progesterone enhance metabolism of the 20- one where a 6- methyl or 6- choro group enhance activity and reduce metabolism (F)
- 2- The rich electron density of the ethyl group and the absence of the 19 – methyl group enhance progesterone activity (T)
- 3- Testosterone and its potent metabolite dihydrotestosterone are produced in less amounts in males (F)