

Choose one of the best answer (2% each)

1. Calcium channel blockers have all of the following characteristics EXCEPT
  - A. they block the slow inward current carried by calcium during phase 2 of the cardiac action potential
  - B. They dilate peripheral arterioles and reduce total peripheral resistance
  - C. they constrict arteries and arterioles and decrease oxygen delivery to the myocardium
  - D. they are useful in treating stable angina pectoris and Prinzmetals' angina
  - E. their adverse effects include aggravation of congestive heart failure
2. Cardiac glycosides may be useful in treating all of the following conditions EXCEPT
  - A. atrial flutter
  - B. paroxysmal atrial tachycardia
  - C. congestive heart failure
  - D. atrial fibrillation
  - E. ventricular tachycardia
3. The termination of heparin activity by protamine sulfate is due to
  - A. a chelating action
  - B. an acid-base interaction
  - C. the inhibition of gastrointestinal motility
  - D. the displacement of heparin-plasma protein binding
  - E. the prothrombin-like activity of protamine
4. Parenterally administered antihypertensive agents used in the treatment of hypertensive emergencies include the
  - I. centrally acting antiadrenergic clonidine
  - II. arteriolar and venous vasodilator nitroprusside
  - III. ganglionic-blocking agent trimethaphan
  - A. only I is correct
  - B. only III is correct
  - C. I and II are correct
  - D. II and III are correct
  - E. I, II, III are correct
5. The antianginal effect of propranolol may be attributed to all of the following EXCEPT
  - A. increases end-diastolic ventricular volume
  - B. decrease systolic fiber tension
  - C. block of exercise-induced tachycardia
  - D. decreases cardiac forces
  - E. reduces resting heart rate

(背面仍有題目,請繼續作答)

6. Steptokinase is indicated for the treatment of
- impaired fat absorption
  - tuberculosis
  - neoplastic disorders
  - psoriasis
  - pulmonary edema
7. Choose one of the following drugs which principal site of action is on the thick ascending limb of Henle's loop, and is useful in treating pulmonary edema and ascites
- furosemide
  - hydrochlorothiazide
  - spironolactone
  - mannitol
  - acetazolamide
8. Agents useful in the treatment of bronchial asthma usually
- block both  $\alpha$ - and  $\beta$ -adrenergic receptors
  - stimulate  $\alpha$ -receptors but block  $\beta$ -receptors
  - stimulate  $\beta$ -receptors but block  $\alpha$ -receptors
  - stimulate  $\alpha$ - and  $\beta$ -receptors
  - none of above
9. Heparin does not
- inhibit blood clotting
  - decrease the activity of antithrombin III
  - lyse existing clots
  - prolong clotting time
  - inhibit activation of the fibrin-stabilizing factor (Factor VIII)
10. An agent that would be most likely to cause drug-induced bronchospasm is
- pindolol
  - reserpine
  - aminophylline
  - hydrochlorothiazide
  - isoproterenol

11. Anticancer agents that act as enzyme inhibitors include
- doxorubicin
  - methotrexate
  - floxuridine
- A. only I is correct  
B. only III is correct  
C. I, II are correct  
D. II, III are correct  
E. I, II, III are correct
12. Systemic antifolate therapy has been found to be useful in the treatment of psoriasis. Which of the following agents most likely would be dispensed for this purpose?
- cyclophosphamide
  - methotrexate
  - vinblastine
  - bleomycin
  - carbamustine
13. Which of the following drugs should be avoided in the treatment of rheumatoid arthritis (because of aplastic anemia)?
- aspirin
  - hydroxychloroquine
  - phenylbutazone
  - methotrexate
  - cyclophosphamide
14. Tamoxifen is an agent that can best be described as a(n)
- gonadotropin-releasing hormone analog
  - progestin
  - androgen
  - estrogen
  - antiestrogen
15. The sulfonylureas are believed to exert the hypoglycemic effect by
- stimulating the release of insulin from the pancreas
  - inhibiting the breakdown of endogenous insulin
  - enhancing the effectiveness of small amounts of insulin that the diabetic can produce
  - increasing the peripheral utilization of glucose
  - all of the above mechanisms

(背面仍有題目,請繼續作答)

16. AZT (azidothymidine) acts by inhibiting
- protein kinase
  - HIV protease
  - integrase
  - reverse transcriptase
  - RNA polymerase
17. The mechanism of antibacterial action of cephalosporins involves
- inhibition of peptide synthesis
  - interference with the synthesis of ergosterol
  - inhibition of transpeptidase enzymes
  - inhibition of beta-lactamases
  - inhibition of DNA gyrase
18. All of the following are quinolone antimicrobials EXCEPT
- nalidixic acid
  - cinoxacin
  - nitrofurantoin
  - ciprofloxacin
  - norfloxacin
19. Common decongestants used for topical application to the nasal passage include
- phenylephrine HCl and naphazoline
  - oxymetazoline HCl and xylometazoline HCl
  - phenylpropanolamine HCl and pseudoephedrine sulfate
- I only
  - III only
  - I and II
  - II and III
  - I, II, and III
20. An advantage of amoxicillin over ampicillin is that it
- is more acid stable
  - is not destroyed by penicillinase
  - has a broader spectrum
  - does not cause allergies
  - has a longer shelf-life
21. All of the following are diuretics EXCEPT
- aminophylline
  - glyburide
  - spironolactone
  - bumetamide
  - chlorthalidone



22. Isotretinoin is commonly used to treat
- A. lice infestations
  - B. fungal infestations
  - C. ringworm
  - D. burns
  - E. acne
23. True statements about potency and efficacy include which of the following?
- I. The slope of the dose-response curve gives a good idea of a drug's efficacy
  - II. Potency refers to the different amounts of two or more drugs that are needed to produce the same effect
  - III. The log dose-response curve allows comparison of the relative potency of two drugs but not a comparison of their efficacy
  - IV. Potency and efficacy are unrelated properties
- A. I and III are correct
  - B. II and IV are correct
  - C. I, II and III are correct
  - D. Only IV is correct
  - E. I, II, III and IV are correct
24. Ocular timolol is used primarily in
- A. glaucoma
  - B. pink eye
  - C. conjunctivitis
  - D. eye infections
  - E. eye cleansers
25. Estrogens tend to increase the risk of
- A. hirsutism
  - B. endometrial carcinoma
  - C. hearing loss
  - D. visual problems
  - E. pregnancy
26. Drugs useful in the treatment of infertility include all of the following EXCEPT
- A. human chorionic gonadotropin
  - B. bromocriptine
  - C. gonadotropin-releasing hormone
  - D. prolactin
  - E. clomiphene

27. The following statements about Viagra are true except
- A. it is used for the treatment of erectile dysfunction
  - B. its chemical name is sildenafil
  - C. it is a selective inhibitor of phosphodiesterase type 3
  - D. it enhances the effect of nitric oxide
  - E. it is cleared predominantly by hepatic elimination
28. How does rifampin decrease the efficacy of certain oral contraceptive (OC)?
- A. Increases OC renal clearance
  - B. Increases OC metabolism via hepatic enzyme induction
  - C. Reduces OC systemic circulation via protein binding
  - D. Decreases intestinal absorption of OC
  - E. None of the above
29. Finasteride's action in the treatment of benign prostatic hypertrophy is as a (an)
- A. HMG-CoA reductase inhibitor
  - B.  $5\alpha$  reductase inhibitor
  - C. serotonin reuptake inhibitor
  - D. P450 hepatic enzyme inhibitor
  - E. none of the above
30. Which one of the following statements about desmopressin is not true?
- A. It's a synthetic polypeptide containing 8 amino acid.
  - B. Its antidiuretic effect is greater than arginine vasopressin
  - C. It is used intranasally or parenterally
  - D. It increases water reabsorption in the kidney
  - E. It reduces urinary sodium and potassium excretion
31. The glucocorticoid that exhibits very low mineralocorticoid activity and high topical activity is
- A. cortisol
  - B. triamcinolone
  - C. aldosterone
  - D. fludrocortisone
  - E. spironolactone

32. Terazosin, an  $\alpha$  1 adrenergic antagonist, improves urine flow and symptoms of benign prostatic hypertrophy (BPH) via
- smooth muscle relaxation in the prostate
  - smooth muscle relaxation in the bladder neck
  - reduces bladder contractility
- A. I only  
B. III only  
C. I and II only  
D. II and III only  
E. I, II, and III
33. Which one of the following drug combination has (have) been effective therapy for the treatment of helicobacter pylori?
- clarithromycin/ranitidine bismuth citrate
  - omeprazole/clarithromycin
  - ciprofloxacin/erythromycin
- A. I only  
B. III only  
C. I and II only  
D. II and III only  
E. I, II, and III
34. Which one of the hypoglycemic agents is associated with high incidence of lactic acidosis?
- A. acetohexamide  
B. tolbutamide  
C. chlorpropamide  
D. phenformin  
E. Metformin
35. The purpose of fluoride in topical dental products is to
- prevent tooth staining
  - remove calculus from the tooth surface
  - combine with calcium and phosphorous to strengthen the tooth surface
- A. I only  
B. III only  
C. I and II only  
D. II and III only  
E. I, II, and III

36. Which of the following agents is commonly used in the therapy of multiple sclerosis?

- A. Neostigmine
- B. Cyanocobalamine
- C. Adrenocorticotrophic hormone (ACTH)
- D. Propylthiouracil
- E. 5-Fluorouracil

37. Which of the following drugs would most likely be used in the treatment of bronchospasm that is associated with chronic obstructive pulmonary disease?

- A. Ambenonium
- B. Edrophonium
- C. Homatropine
- D. Ipratropium
- E. Propantheline

38. All of the following adverse effects are associated with the use of levodopa EXCEPT

- A. depression
- B. delusion and confusion
- C. dyskinesia and dystonia
- D. livedo reticularis
- E. orthostatic hypotension

39. All of the following statements describing acetaminophen are true EXCEPT

- A. it has anti-inflammatory activity similar to or greater than that of salicylates
- B. it acts as an analgesic and antipyretic
- C. it may cause skin rash
- D. it may be used in children with influenza-type viral infections
- E. acute overdose is characterized by severe hepatotoxicity

40. Which of the following substances when present in urine is the most likely positive sign of pregnancy?

- A. Thyroid-stimulating hormone
- B. Corticotropin
- C. Human chorionic gonadotropin
- D. Interstitial cell-stimulating hormone
- E. Protamine zinc insulin



41. Which of the following glucocorticoids produces the least sodium retention?
- A. Cortisone
  - B. Dexamethasone
  - C. Fludrocortisone
  - D. Hydrocortisone
  - E. Prednisolone
42. All of the following medications should not be routinely used during the third trimester EXCEPT
- A. acetaminophen
  - B. lithium
  - C. warfarin
  - D. aspirin
  - E. non-steroidal anti-inflammatory drugs
43. Which anticonvulsant drug requires therapeutic monitoring of phenobarbital serum levels as well as its own serum levels?
- A. Carbamazepine
  - B. Clonazepam
  - C. Ethotoin
  - D. Phenytoin
  - E. Primidone
44. Most antipsychotic agents except clozapine are potent blockers of which neurotransmitters?
- A. acetylcholine
  - B. calcium
  - C. dopamine
  - D. norepinephrine
  - E. zinc
45. In the emergency room, the preferred first-line therapy for asthma is
- A. theophylline
  - B. a  $\beta$ -agonist
  - C. a corticosteroid
  - D. cromolyn sodium
  - E. an antihistamine

(背面仍有題目,請繼續作答)

46. The diuretic of choice for the initial treatment of a patient with either acute or chronic renal failure whose creatinine clearance is below 25 ml/min is
- A. bumetanide
  - B. ethacrynic acid
  - C. furosemide
  - D. hydrochlorothiazide
  - E. mannitol
47. Which of the following narcotics has the longest duration of effect?
- A. Dihydromorphone
  - B. Transdermal fentanyl
  - C. Levorphanol
  - D. Methadone
  - E. Controlled-release morphine
48. Which of the following neuromuscular blocking agents may cause muscarinic response such as bradycardia and increased glandular secretions?
- A. Gallamine
  - B. Decamethonium
  - C. Pancuronium
  - D. Succinylcholine
  - E. Tubocurarine
49. A 23-year-old patient is diagnosed with simple partial seizures. What would the drug of choice be in this patient?
- A. Carbamazepine
  - B. Clonazepam
  - C. Ethotoin
  - D. Phenytoin
  - E. Primidone
50. A woman has an upper respiratory infection. She experienced an episode of bronchospasm following penicillin V therapy six years ago. The cultures now reveal a strain of *Streptococcus pneumoniae* that is sensitive to all of the following drugs. Which of these drugs would be the best choice for this patient?
- A. Ampicillin
  - B. Cefaclor
  - C. Cyclacillin
  - D. Erythromycin
  - E. Amoxicillin/clavulanate