# 國立成功大學 104 學年度碩士班招生考試試題

**系所組別:臨床藥學與藥物科技研究所甲組** 

### 考試科目:調劑學

### 第1頁,共5頁

考試日期:0212,節次:1

# ※考生請注意:本試題不可使用計算機。請於答案卷(卡)作答,於本試題紙上作答者, 不予計分。

### I. Select one optimal answer. (30 points total, 2 point each)

- 1. Which antibiotic would you suggest for pregnant women with urinary tract infection?
  - A. Ampicillin
  - B. Azithromycin
  - C. Co-trimoxaole
  - D. Levofloxacin

2. The following tests are necessary to monitor amiodarone related adverse effects, except:

- A. Chest x-ray and pulmonary function
- B. Thyroid function
- C. Liver function test
- D. Heart ejection fraction
- 3. Which agent is not recommended for hypertriglyceridemia?
  - A. Cholestyramine
  - B. Fenofibrate
  - C. Gemfibrozil
  - D. Niacin
- 4. When counseling patient taking warfarin, which one of the following statements is wrong?
  - A. Do not take this medicine during pregnancy.
  - B. Blood test to monitor warfarin levels is necessary for preventing side effects.
  - C. It works best if daily intake of vitamin K is consistent.
  - D. You may bleed or bruise more easily.
- 5. Which of the following correctly describes an age related physiologic alteration that affects the effects of medications in geriatric patients?
  - A. Altered gastrointestinal function leading to decreased drug absorption
  - B. Decrease in the body fat compartment
  - C. Decline in creatinine clearance with an increase in age
  - D. Increase in the water compartment
- 6. When giving a β-blocker for hypertension to asthmatic patients whose asthma is well controlled on the combination of fluticasone and salmeterol, which of the following is most likely to occur?
  - A. The  $\beta$ -blocker might increase the effects of salmeterol on the heart, causing tachycardia.
  - B. The  $\beta$ -blocker might decrease the effects of fluticasone on mast cells, lymphocytes and eosinophils.

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### 考試科目:調劑學

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- C. The  $\beta$ -blocker might increase systemic absorption of fluticasone.
- D. The  $\beta$ -blocker might decrease the bronchodilator effects of salmeterol.
- 7. Which of the following drugs used for COPD has the greatest potential produce cardiac arrhythmias?
  - A. High dose fluticasone + salmeterol combination product
  - B. Slow release oral theophylline.
  - C. Tiotropium inhaler
  - D. Ipratropium MDI
- 8. Which of the following would most likely cause insomnia in a patient with allergic **n** hinitis if taken in the evening or at bedtime?
  - A. Diphenhydramine syrup
  - B. Fluticasone furoate nasal spray
  - C. Montelukast tablets
  - D. Pseudoephedrine tablets
- 9. Which of the following best describes appropriate pharmacologic therapy of a patient with H. pylori positive peptic ulcer disease?
  - A. Antacids + sucralfate
  - B. H2 receptor antagonists + Bismuth salt
  - C. Proton pump inhibitor + antibiotics
  - D. Prostaglandin E1 analogue + antibiotics
- 10. Which of the following is correct regarding to metformin use in type 2 diabetes?
  - A. Causes weight gain in most patients
  - B. Contraindicated in female patient with serum creatinine (SCr)  $\geq$  1.4 mg/dl
  - C. Primarily works by increasing insulin secretion from functioning beta cells
  - D. Associated with increased risk of bone fractures
- 11. Which of the following drugs is least likely to cause hyperglycemia?
  - A. ACE inhibitors
  - **B.** Corticosteroids
  - C. Diuretics
  - D. Nicotinic acid
- 12. Which drug is the first-line treatment for social anxiety disorder?
  - A. Citalopram
  - B. Ethosuximide
  - C. Paroxetine
  - D. Zolpidem

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	Which of the following antineoplastic agents belongs to targeted therapy?	
	A. Bevacizumab	
	B. Fluorouracil	
	C. Methotrexate	
	D. Oxaliplatin	
14.	Isotretinoin (0.5-1 mg/kg/day) is indicated for severe acne. How long is the usual duration of	
	therapy, which will reach a cumulative dose of 120 mg/kg?	
	A. 5 days	
	B. 5 weeks	
	C. 50 days	
	D. 5 months	•
15.	Among the following topical corticosteroid preparations, whi	ch one is the least potent?
	A. Betamethasone valerate 0.1%	
	B. Clobetasol propionate 0.05%	
	C. Hydrocortison 0.5%	
	D. Triamcinolone 0.1%	

total, 1 points each)

Column A

- 1. ALT
- 2. CD4 count
- 3. ECG
- 4. HDL
- 5. MIC
- 6. Cefazolin
- 7. Cisplatin
- 8. Desmopressin
- 9. Doxorubicin
- 10. Ezetimibe
- 11. Hydrochlorthiazide
- 12. Memantine
- 13. Ranitidine
- 14. Rivastigmine
- 15. Unfractionated heparin

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#### 考試科目:調劑學

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Column B

- A. The protective lipoprotein for the occurrence of coronary heart disease
- B. The quantitative value to determine in vitro antibacterial activity
- C. An enzyme representing liver function
- D. A graphic recording of the electrical potentials by the heart
- E. Indicator for persons with HIV infection
- F. Used primarily in the diagnosis of seizures
- G. Used to monitor the response of HBV treatment
- H. Higher proportion of protein in its composition as compared to LDL
- I. The mainstay for prophylaxis in most surgical procedures
- J. Add to parenteral nutrition solutions to prevent catheter thrombosis.
- K. Blocks cholesterol absorption across the intestinal border to reduce cholesterol level.
- L. Oral tablet is indicated for nocturnal enuresis.
- M. Blood sugar may be raised in diabetic patients, and should be advised during consultation.
- N. For stress ulcer prophylaxis and is stable when admixed with two-in-one parenteral nutrition admixture.
- O. An anticoagulant
- P. A platinum analog with nephrotoxicity
- Q. An anthracycline with cardiac toxicity
- R. A cholinesterase inhibitor indicated for Alheimer's disease
- S. A N-methyl-D-aspartate receptor indicated for Alheimer's disease
- T. A proton pump inhibitor

### III. Fill the blank with proper answer. (40 points total, 2 points each)

1. To manage ST-segment elevation myocardial infarction, early pharmacotherapy includes intranasal oxygen, sublingual <u>(1)</u>, <u>(2)</u>, an anticoagulant, and fibrinolysis.

(3) is administered to patients with refractory angina as an analgesic.

- Serum calcium concentrations higher than \_\_(4) \_\_ mg/dl are considered to represent hypercalcemia. The cornerstone of initial treatment of severe hypercalcemia is volume expansion with \_\_(5) \_\_ to increase natriuresis, or short-term therapy with \_\_(6) \_\_ is an alternative agent to the reduction of serum calcium levels within 24 to 48 hours.
- Streptococci is a common cause of infective endocarditis, high dose parenteral (7) or
   (8) for 4 weeks is recommended to treat uncomplicated, native-valve endocarditis.

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- 4. The standard regimen for active tuberculosis for the first 2 months includes <u>(9)</u>,
  <u>(10)</u>, <u>(11)</u>, and <u>(12)</u>. <u>(13)</u> alone is a preferred drug for treating latent TB for 9 months.
- 5. For patients with concomitant infection of HIV and HBV, the recommended regimen is combination of (14) and (15) in Taiwan.
- 6. <u>(16)</u> is first-line therapy in most cases of attention deficit hyperactivity disorder, while <u>(17)</u> and guanfacine are second-line alternatives to the stimulants in children.
- Sulfonylureas are classified as first-generation and second-generation agents. In comparison of potency, <u>(18)</u> agents are higher.
- 8. When compounding parenteral nutrition solution, pharmacist should work under <u>(19)</u> to achieve sterile preparations. Usually, <u>(20)</u> should be used to clean the vials and outer packs of consumables before being introduced into the clean room.

#### IV. Questions (15 points total, 5 points each)

- 1. Explain what is beyond use date. How to establish the beyond use date for compounded sterile products.
- 2. Describe your experience in using medical literature.
- 3. How do you know about "雲端藥歷"?