Select the only best answer (2% each, 0.5% penalty for each incorrect answer)

- The antidote for intoxication of acetaminophen (Panadol) is:
- ethylene glycol.
- acetylcystein. penicillamine. B.
- Ĉ. D. E.

 G_{ij}

- dimercaprol.
 none of the above.
- 2. The action site for lovastatin is:
- acetyl transferase.
- decrease of VLDL secretion. HMG-Co A reductase. HVA-Co A oxidase. B.
- C. D.
- none of the above.
- 3. Tranexamic acid is used in clinics for:
- Hyperlipidemia.
- В. Thrombolytic drug.
- C. D. E.
- Hypoglycemia. Antifibrinolysin.
- None of the above.
- 4. Edrophonium (Tensilon) would facilitate the initial relaxant effect of:
- Tubocurarine.
- B. C. D. Vencuronium. Atracurium.
- Pancuronium.
- None of the above.
- 5. Treatment of a staphylococcal infection is an appropriate use in clinics for each of the following drugs <u>EXCEPT</u>:
- Metronidazole.
- Erythromycin.
- Cefazolin. Vancomycin. C. D.
- None of the above.
- Daily use of this substituted phenol results in a deposit on the skin that is bacteriostatic and this compound may be absorbed and has caused neurotoxic effects in neonates is:
- Chlohexidine.
- В. Gential violet.
- C. D. Chloramine-T.
- Hexachlorophene.
- None of the above.

國立成功大學八十二學年度發生班入学考試(薬從行藥從学試題)

- Captopril and enalapril do all of the followings EXCEPT: 7.
- Inhibit an enzyme named as ACE.
- В. Displace the angiotensin at its receptor.
- C. D. Increase renin level in the blood.
- Decrease angiotensin II level in the blood.
- None of the above.
- 8. The clinical application of beta-adrenolytic drugs is:
- Thyroid storm.
- B. Glaucoma.
- Migraine.
- C. D. Hypertension.
- Ē. All of the above.
- 9. All of the following statements about L-DOPA are true EXCEPT:
- Phenothiazines are contraindicated.
- B. Early side effects include nausea vomiting.
- C. D. Carbidopa is often given in combination with L-DOPA. MAO inhibitors are contraindicated.
- It causes hypertension
- Which of the following is an antidepressant agent that selectively inhibits serotonin (5-HT) uptake with minimal effect on norepinephrine uptake? 10.
- Protriptyline. Maprotiline.
- B.
- Fluoxetine.
- D. Desipramine.
- Amoxapine.
- 11. Which of the following drugs stimulates prolactin release?
- Bromocryptine
- В. L-DOPA
- Phenobarbital
- D. Chlorpromazine
- E. Diazepam
- 12. All of the following statements are true about triazolam **EXCEPT**:
- It binds to benzodiazepines receptor, enhancing GABA-mediated chloride influx. It is useful in the treatment of insomnia.
- В.
- It enhances the activity of the drug-metabolizing microsomal system.

 Combined with ethanol, it may produce significant respiratory depression. D. E.
- Adverse effects may include drowsiness, dizziness, lethargy and ataxia.
- Withdrawal from amphetamine is characterized by: 13.
- Anorexia.
- B. Excess food intake.
- C. D. Insomnia.
- Overexcitability.
- None of the above.

國立成功大學八十二學年度碩士班入灣試(藥理所藥理学試題)

- Which of the following compounds is a competitive antagonist of glycine receptor and can cause convulsion?
- Picrotoxin
- B. Pentylenetetrazole
- C. D. Doxapram
- Bicuculline
- E. Strychnine
- Which of the following is a selective inhibitor of monoamine oxidase B useful in the treatment of parkinsonism?
- Deprenyl Carbidopa
- Bromocriptine
- B. C. D. Tranylcypromine
- Phenelzine
- All of the following statements are true about ethanol EXCEPT: 16.
- It is a hepatotoxic agent.
- B.
- C. D.
- It elevates body temperature by peripheral vasoconstriction.
 It suppresses the release of antidiuretic hormone.
 It can lead to gastritis and pancreatitis.
 Acute overdose can cause acidosis, hypoglycemia and elevated intracranial pressure.
- 17. The preferred treatment of status epilepticus is intravenous administration of
- Chlorpromazine.
- В.
- Diazepam.
 Desipramine.
- D. Ethosuximide.
- , E. Tranylcypromine.
- 18. Fatty acid cyclooxygenase is an enzyme which leads to the formation of prostaglandins. Which of the following drugs directly inhibits the enzyme activity?
- Dexamethasone.
- B. Nitroprusside.
- C. D. Diphenhydramine.
- Aldosterone.
- Indomethacin.
- 19. Theophylline is useful in asthma because
- It has no significant effects on the heart.
- B. It decrease intracellular calcium in bronchial smooth muscle.

(朝日秋田文路市印制路济沙里名《桃安安》和宋北林仙初小山林)

- C. D. E. It is inactive by the oral route.
 It increases cAMP without desensitizing receptors in bronchioles.
- It is a potent stimulant of beta receptors.

國立成功大學八十二學年度碩士班入学考試(藥程行藥理学試題)業

- 20. Which of the following has a rapid diuretic effect, plus smooth muscle effects that make it useful in the treatment of acute pulmonary edema?
- Furosemide.
- В. Acetazolamide.
- Triamterene.
- C. D.
- Spironolactone. Thiazide diuretic.
- Uric acid is formed from hypoxanthine by xanthine oxidase. The enzyme activity is inhibited by 21.
- Hydrocortisone.
- B. Allopurinol.
- Probenecid.
- C. D.
- Sulfinpyrazone. Phenylbutazone.
- Antihistamines (H₁) have various clinical uses including 22.
- decreasing gastric secretion in peptic ulcer, treatment of a severe bronchial asthma attack.
- A. B. C. D.
- prophylaxis and treatment of motion sickness.
- increasing blood flow to the extremities in periphoral vascular disease.
- treatment of cardiac arrhythmias.
- 23. A polypeptide that causes increased capillary permeability and edema is
- A. B. Angiotensin I. Saralasin.
- Angiotensin II.
- C. D. Bradykinin.
- E. Captopril.
- 24. Activation of plaminogen to plasmin
- B.
- is brought about by heparin given orally. is brought about by streptokinase given parenterally. can be reversed by administration of vitamin K_1 oxide. is used preoperatively and during surgery in patients prone to deep vein thrombosis, e.g., the elderly with hip fractures. is brought about by wasfarin given orally. C. D.
- E. is brought about by warfarin given orally.
- Increased levels of which of the followings may be associated with the decreased risk of atheroselerosis?
- Very low density lipoproteins.
- A. B. Chylomicrons.
- Lp(a) lipoproteins.
- Ď. Intermediate-density lipoproteins. High-density lipoproteins.

(朝日韓国长福禄们想路路)甲名不能全官总计定长棒的知山口格)____

國立成功大學八十二學年度碩士班入学考試(藥理所藥理学試題)

- Which of the following drugs is beneficial in the therapy of thrombus formation?
- Acetaminophen.
- A. B. Indomethacin.
- Ibuprofen.
- Ď. Dexamethasone.
- E. Acetylsalicylic acid.
- 27. Dipyridamole is used as an anti-platelet drug because
- A. B.
- it inhibits phospholipases in platelets. it stimulates adenyl cyclase in platelets. it inhibits fatty acid cyclooxygenase in platelets. it inhibits thromboxine synthease in platelets.
- E. it inhibits phosphodiesterase in platelets.
- 28. Which of the following demonstrations about intravenous anesthetics is **CORRECT?**
- Ketamine is the best choice for anesthesia in intraocular surgery.
- В.
- Fentanyl may produce respiratory depression, which can be reversed by naloxone. Due to potent analgesic and muscle relaxant effects, thiobarbiturates are frequently used in general anesthesia.
- Like apomorphine, droperidol is a potent emetic agent. Once intoxicated, the antagonist should be given. D.
- E. The duration of unconsciousness in barbiturates-induced anesthesia is dependent on the rate of distribution of the drugs from the brain to the other part of the body.
- 29. Which of the following statements about inhalational anesthesia is TRUE?
- Most of inhalational anesthetics may increase cerebral blood flow and brain pCO_2 Halothane may produce tachycarida. Nitrous oxide may increase myocardial oxygen consumption. Long-termed application of haloxane may cause hearing loss.
- B. C.
- D.
- E. Methoxyflurane may produce hepatotoxiity.
- Which of the following inhalational anesthetics possesses most patent analgesic and 30. skeletal muscle relaxant effects?
- Isoflurane
- A. B. Haloxane
- C. D. Enflurane
- Cyclopropane Methoxyflurane
- 31. Opioid-induced miosis and spinal anesthesia are mediated by
- μ_1 receptors and μ_2 receptors. A. B.
- μ₂ receptors only. σ receptors only.
- C. D. к receptors only.
- δ receptors only.

國立成功大學八十二學年度發生班入学考試(藥從所藥心管試題)

- 32. Which of the following statements about opioids is FALSE?
- Tolerance and physical dependence develop more slowly with methadone than with A. morphine.
- Morphine may have minimal or no tolerance to constipation.

 Morphine induced miosis can not be blocked by atropine.

 Stroke or spinal cord injury can be treated with opioid antagonists.

 Opioid agonists are contraindicated to MAOI users. B.
- D.
- The inhibitory effect of oubaine on gastric secretion is due to its blockade of 33.
- B.
- H⁺-K⁺ ATPase. Na⁺-K⁺ ATPase. Carbonic anhydrase. Ca⁺ channels.
- Ď.
- Cl⁻ conduction.
- In order to achieve rapid control of severe ketoacidosis in a hospitalized diabetic 5-34. year-old boy, the appropriate antibiabetic agent to use is
- Isophane (NPH) insulin. Glyburide. Tolbutamide.
- В.
- C. D. Protamine zine or ultralene insulin.
- E. Crystalline zinc insulin.
- 35. The following chemicals possesses gastric mucosal cytoprotection, EXCEPT
- carbenoxolone
- prostaglandin E₂. sucralfate. B.
- C. D. cimetidine
- bismuth chelate.
- 36. All the following antibiotics act on bacterial cell wall EXCEPT
- A. B. Bacitracin.
- Vancomycin. Cycloserine.
- C. D. Tobramycin.
- Ristocetin.
- 37. Which of the following agents can interrupt DNA chains of HIV (human immunodeficiency virus)?
- FCCP AZT
- A. B. C. D.

國立成功大學八十二學年度發t班入学考試(薬或所來沒受試題)

- 38. All the following agents contain amine sugars in glycosidic linkage EXCEPT
- Streptomycin. Tobramycin.
- A. B.
- Polymyxin.
- C. D. E. Gentamicin. Amikacin.
- 39. Pencillin is the first choice in the treatment of
- A. B. Atypical pneumonia.
- Syphilis. Klebsiella pneumonea. Hashimoto disease. C. D.
- E. None of the above.
- 40. The major side effect of oral contraceptive is
- diabetes mellitus.
- hypertension.
- thrombophlebitis. multiple birth.
- A. B. C. D.
- hypercholesterolemia.
- 41. All the mechanisms of resistance to antimicrobial drugs are correct, EXCEPT
- A. B. transduction.
- transformation.
- conjugation.
- D. transposition.
- E. none of the above.
- 42. Which of the properties of erythromycin is **INCORRECT**?
- treated in atypical pneumonia
- A. B. a macrolide antibiotic
- acts on the bacterial DNA
- C. D. diffuses rapidly into tissues and distributes in total body water
- E. none of the above
- 43. The purpose of the combination of amoxicillin and clavulanic acid is
- to inhibit penicillinase. to prevent resistant strain. A. B.
- to prevent synergism.
 to inhibit tubular secretion. D.
- to prevent hypersensitivity.

國立成功大學八十二學年度沒士姓入芝考試(菜设所來迎尝試題)

- The clearance of the ophylline for a 60 kg nonsmoking male patient is $0.2 \, L/kg/hr$ and volume of distribution is $0.5 \, L/kg$. To achieve a plasma concentration of 15 mg/L immediately, what is the appropriate loading dose?
- 450 mg
- A. B.
- 180 mg 450 mg/hr C. D.
- 180 mg/hr none of above
- Acetylcholine is known to exert its action on neuron through:
- increasing mRNA of the cell.
- A. B. tyrosine phosphorylation of a transmembrane enzyme.
- Ď.
- affecting ion channels.
 the cAMP second messenger pathway.
 the Ca + /phosphoinositide signaling pathway. E.
- Each of the following antiarrhythmic agents is correctly matched with an appropriate untoward effect \underline{EXCEPT} 46.
- auinidine-cinchonism
- B. C. procainamide-hypotension with intravenous administration lidocaine-systemic lupus erythematosus-like syndrome
- D. disopyramide-untoward anticholinergic effects
- E. bretylium-orthostatic hypotension
- Therapeutic uses for propranolol include I. atrial fibrillation
 - - II. atrial flutter
 - III. paroxysmal atrial tachycardia IV. ventricular arrhythmias
- I, II, & III I & III II & IV IV only

- A. B. C. D.
- I, II, IIÍ, & IV
- 48. Tamoxifen induces the most favorable response in which of the following forms of cancer?
- Breast cancer
- B. Testicular cancer
- Ovarian cancer
- D. Cervical cancer
- Kaposi's sarcoma
- 49. All of the following statements about Fick's law as it pertains to simple diffusion are
- the greater the concentration gradient, the greater the rate of absorption. the smaller the surface area, the grater the drug flux. the greater the lipid-water partition coefficient, the greater the drug flux. diffusion constant is directly proportional to the temperature. diffusion constant is inversely related to the molecular size.
- В.
- D.
- E.
- 50. Pharmacologic doses of glucorticoids can result in all the following effects EXCEPT
- B.
- stimulation of leucocyte migration. stabilization of lysosomal membranes reduced activity of fibroblasts, reversal of a histamine stimulated increase in capillary permeability.
- inhibited antibody synthesis.