

Elite Expertise - Pharmacy MCQ Practice Set

1. What is the effect of parathyroid hormone?
 - A. Decreased excretion of phosphate
 - B. Decreased renal tubular reabsorption of calcium
 - C. Decreased resorption of phosphate from bone
 - D. Increased mobilisation of calcium from bone
2. In females, estradiol is secreted from which part of the endocrine system?
 - A. Adrenal cortex
 - B. Anterior pituitary
 - C. Hypothalamus
 - D. Ovarian follicle
3. What is the primary pharmacological effect of isoprenaline?
 - A. Blocks alpha adrenoceptors
 - B. Blocks dopaminergic receptors
 - C. Stimulates beta adrenoceptors
 - D. Releases noradrenaline from noradrenergic nerves
4. The composition of sweat is altered in which disease state?
 - A. Cystic fibrosis
 - B. Diabetes insipidus
 - C. Glomerulonephritis
 - D. Hypothyroidism
5. Which structure(s) prevent backflow of blood into the ventricles of the heart?
 - A. Aortic and pulmonary valves
 - B. Atrio-ventricular valves
 - C. Pericardium
 - D. Valves in the veins
6. Which steroid has a markedly different physiological property to the other three?
 - A. Norethisterone
 - B. Levonorgestrel
 - C. Nandrolone
 - D. Megestrol
7. When are particle size and crystal structure generally important factors in bioavailability of oral dosage forms?

- A. The drug is relatively insoluble in water (less than 1%)
 - B. The molecular weight of the drug is high (exceeds 1000)
 - C. The drug is administered as a solution
 - D. The characteristics of the drug mean it is not absorbed from the gastrointestinal tract
8. Sodium polystyrene sulfonate exerts its therapeutic effect by acting as an exchange resin. Which ONE of the following ions is exchanged with sodium?
- A. Calcium
 - B. Chloride
 - C. Phosphorus
 - D. Potassium
9. Which ONE of the following would be the LEAST likely reason for a drug's low plasma concentration?
- A. It crosses the blood-brain barrier easily
 - B. It is distributed extensively in the tissues
 - C. It is metabolised quickly
 - D. It is slowly absorbed
10. Which of the following drugs has the longest half-life?
- A. Amiodarone
 - B. Amlodipine
 - C. Morphine
 - D. Verapamil
11. Which ONE of the following drugs is LEAST likely to need a dosage adjustment in a patient with reduced renal function?
- A. Haloperidol
 - B. Metformin
 - C. Digoxin
 - D. Tobramycin
12. What does the term "steady state" mean in relation to the plasma levels of a drug?
- A. The dosing interval of the drug remains constant
 - B. The protein binding of a drug has come to equilibrium
 - C. The rate of drug administration equals the rate of drug elimination
 - D. The therapeutically effective levels have been reached
13. An elderly patient on long-term warfarin therapy for atrial fibrillation presents with mild gum bleeding. Their INR is 6.1 but all other vital signs are normal. After withholding oral warfarin, what is

the MOST appropriate approach to management?

- A. Give intravenous Vitamin K and prothrombin complex concentrate (PCC) immediately
- B. Give subcutaneous Vitamin K and wait for INR to fall
- C. Give oral vitamin K and check INR in 7 days
- D. Check INR in 10 days

14. Which ONE of the following drugs is MOST likely to cause a clinically significant pharmacokinetic drug interaction with warfarin?

- A. Sodium valproate
- B. Paroxetine
- C. Omeprazole
- D. Fluconazole

15. A 32-year-old patient is brought into the emergency department with a low respiratory rate, pinpoint pupils and reduced consciousness after being found next to an empty box of oxycodone tablets. Which would be the MOST appropriate to reduce these symptoms of likely opioid overdose?

- A. Flumazenil
- B. Hydromorphone
- C. Naloxone
- D. Buprenorphine

16. Vancomycin doses should be reduced in patients with which ONE of the following?

- A. Heart failure
- B. Hepatic impairment
- C. Pulmonary failure
- D. Renal impairment

17. The required dose of dopamine hydrochloride (6.4 mg/100 mL) by intravenous infusion is 5 microgram/kg/min. What volume per minute should the infusion be set at for a 64 kg adult?

- A. 0.2 mL
- B. 0.5 mL
- C. 2.5 mL
- D. 5.0 mL

18. The molecular weight of lithium carbonate, Li_2CO_3 is 73.89. [Atomic weights: Li = 6.95, C = 12, O = 16] How many millimol of lithium are there in a 300 mg tablet of lithium carbonate?

- A. 2.46 millimol
- B. 4.06 millimol
- C. 8.12 millimol
- D. 12.18 millimol

19. Long term phenytoin therapy has been known to cause which ONE of the following?
- A. Cough
 - B. Anorexia
 - C. Muscle cramps
 - D. Hirsutism
20. Which ONE of the following is the MOST appropriate choice to treat infections of penicillinase-producing staphylococci when MRSA is NOT suspected?
- A. Dicloxacillin
 - B. Phenoxymethylpenicillin
 - C. Clindamycin
 - D. Amoxicillin + clavulanic acid
21. In the management of gout, which ONE of the following statements is INCORRECT?
- A. Allopurinol should not be as a sole agent to treat acute attacks
 - B. Thiazide diuretics can precipitate gout
 - C. Paracetamol is the preferred medication for an acute attack
 - D. Diarrhoea is a common side effect of colchicine
22. Clomifene should be taken daily for 5 days starting on what day of the menstrual cycle?
- A. Days 2-5 of the menstrual cycle
 - B. Days 6-9 of the menstrual cycle
 - C. Days 10-13 of the menstrual cycle
 - D. Days 14-17 of the menstrual cycle
23. Therapeutic anticoagulation with unfractionated heparin (UFH) requires monitoring of which ONE of the following?
- A. International Normalised Ratio (INR)
 - B. Antifactor Xa
 - C. Activated partial thromboplastin time (aPTT)
 - D. Prothrombin time
24. A patient with Type 2 diabetes is required to administer their isophane insulin twice daily however they often only administer their dose once daily. Their fasting blood glucose level are consistently high. Which insulin regimen would be MOST appropriate to improve adherence and morning fasting blood glucose levels?
- A. Insulin aspart at night
 - B. Insulin glargine at night
 - C. Insulin regular (Actrapid®) in the morning
 - D. Insulin lispro before dinner

25. Which ONE of the following drugs is the LEAST appropriate for acute treatment of migraine?

- A. Aspirin
- B. Ibuprofen
- C. Oxycodone
- D. Sumatriptan

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