PCare, Ch 6 Quiz

Name___________________________________

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) In which class of the Vaughn-Williams Classification system of antidysrhythmic medications does lidocaine belong?  
   A) 1B      B) 1A      C) II     D) 1C

2) A concern for patients taking both insulin and beta blockers is:  
   A) the two medications, when taken together, have a synergistic effect.  
   B) beta blockers prevent the release of insulin from the beta cells in the pancreas.  
   C) beta blockers, due to their sympatholytic effects on the nervous system, can further reduce available ATP to the cells of the body in the presence of insulin.  
   D) beta2 adrenergic blockers can hide the effects of hypoglycemia, making it difficult to recognize, as well as decrease, the release of glucagon.

3) Methylphenidate (Ritalin), a drug used to treat attention deficit hyperactivity disorder (ADHD), achieves its therapeutic action by:  
   A) inhibiting the CNS, which in ADHD has a profound sedation effect, allowing greater concentration.  
   B) stimulating the CNS and causing a heightened awareness and arousal, allowing for greater focus.  
   C) stimulating the CNS, which in ADHD has an idiosyncratic sedation effect, allowing greater concentration.  
   D) inhibiting the CNS and a concomitant relaxing state, allowing for less distraction and greater focus.

4) A diuretic that affects reabsorption function early in the nephron will:  
   A) have a lesser impact on water and sodium removal.  
   B) affect water reabsorption, but not electrolytes.  
   C) affect electrolytes, but not fluid reabsorption.  
   D) have a greater impact on water and sodium removal.

5) The pharmacological effects of administering insulin to a hyperglycemic patient is an example of increased:  
   A) transference.  
   B) biotransformation.  
   C) carrier-mediated diffusion.  
   D) passive transport.

6) Which of the following medications is appropriate for the routine treatment of Type II diabetes mellitus?  
   A) NPH insulin  
   B) Chlorpropamide (Diabinese)  
   C) Ultralente insulin  
   D) Glucagon

7) Part of the reason that tricyclic antidepressants (TCAs) have fallen somewhat out of favor to selective serotonin re-uptake inhibitors (SSRIs) is because:  
   A) SSRIs have the added advantage of also blocking norepinephrine and dopamine.  
   B) TCA Overdoses often create a hypertensive crisis in patients.  
   C) TCA Overdoses have a cardiotoxic effect.  
   D) SSRIs have the added advantage of also blocking histamine and acetylcholine.
8) Multiple transmitters are involved in the vomiting reflex, including all of the following EXCEPT:
   A) acetylcholine.  B) serotonin.  C) norepinephrine.  D) dopamine.

9) Which of the following statements about hormone replacement therapy (HRT) with estrogen is NOT true?
   A) HRT ineffectively delays the onset of senile dementia in many patients.
   B) HRT is often used to treat postmenopausal symptoms and osteoporosis.
   C) HRT may increase the risk of breast cancer and stroke.
   D) HRT side effects include nausea, fluid retention, and breast tenderness.

10) The principle mechanism of action of Dilantin in treating status seizures is the:
    A) blocking of GABA receptor sites to prevent further cellular activity in the CNS.
    B) blocking of acetylcholine receptors sites at the neuromuscular junction to prevent convulsions.
    C) influx of calcium ions through calcium channels to enhance depolarization.
    D) prevention of sodium ions entering the cell by closing sodium channels.

11) Medications best suited for treating bronchoconstriction generally stimulate:
    A) beta₁ receptor sites.  B) beta₂ receptor sites.
    C) alpha₂ receptor sites.  D) alpha₁ receptor sites.

12) In which class of the Vaughn-Williams Classification system of antidysrhythmic medications does propranolol belong?
    A) II  B) IA  C) IB  D) IC

13) Medications to treat extrapyramidal side effects from antipsychotic medications, as well as drugs used to treat Parkinson's disease, achieve their therapeutic effects by:
    A) increasing the amount of dopamine at the receptor sites in the basal ganglia.
    B) blocking the transmission of neural impulses through the pyramidal decussation of the brain.
    C) blocking the release of dopamine from the substantia nigra in the basal ganglia.
    D) enhancing the effects of acetylcholine, an inhibitory neurotransmitter, in the basal ganglia.

14) If a patient were exhibiting pupilary constriction, hypersalivation, bronchial wheezing, and bradycardia, which division of the autonomic nervous system should you suspect is affected?
    A) Blockade of the voluntary nervous system
    B) Blockade of the cholinergic nervous system
    C) Stimulation of the parasympathetic nervous system
    D) Stimulation of the sympathetic nervous system

15) Tachyphylaxis can best be described as:
    A) a given dose of a drug causes an unexpected rise in heart rate.
    B) when a drug that is administered for the first time causes a severe allergic reaction.
    C) repeated doses of the same drug have rapidly decreasing effects, which may even occur after one dose.
    D) multiple anaphylactoid episodes from the same or chemically similar drug.
16) Which of the following is NOT a characteristic of nifedipine (Procardia)?
   - A) It has little effect on preload, so orthostatic hypotension is not a problem.
   - B) It blocks the calcium channels of the smooth muscles of peripheral arterioles and not the calcium channels of the cardiac electrical conduction system.
   - C) It produces a positive inotropic effect on the heart.
   - D) It effectively dilates the coronary arteries.
   - E) Reduction of blood pressure is accomplished by reducing the peripheral vascular resistance.

17) Which of the following statements about insulin is NOT true?
   - A) Insulin is now produced through recombinant DNA technology.
   - B) Insulin is classified as natural (regular) or modified.
   - C) Insulin is available as short, intermediate, or long acting.
   - D) Insulin must be given subcutaneously.

18) Which of the following statements about cough suppressants is true?
   - A) Nonopioid medications are available by prescription only.
   - B) Some cough suppressants contain opioid antitussives that can be habit forming.
   - C) They may include mucolytics that greatly diminish sputum production.
   - D) They often include expectorants that reduce the amount of sputum produced.

19) Which of the following medications is a proton-pump inhibitor?
   - A) Omeprazole (Prilosec)
   - B) Pirenzepine (Gastrozepine)
   - C) Ranitidine (Zantac)
   - D) Cimetidine (Tagamet)

20) In the renin-angiotensin-aldosterone system (RAAS), which element is most responsible for widespread vasoconstriction?
   - A) Angiotensin converting enzyme (ACE)
   - B) Angiotensin II
   - C) Angiotensin I
   - D) Angiotensinogen