

RSPT 1200

SELF ASSESSMENT – Module B

1. Where are the following receptor sites located?
 - a. α receptor sites **VASCULAR SMOOTH MUSCLE, SOME BRONCHIAL SMOOTH MUSCLE**
 - b. β_1 receptor sites **HEART**
 - c. β_2 receptor sites **BRONCHIAL SMOOTH MUSCLE, SOME VASCULAR SMOOTH MUSCLE**
2. Stimulation of alpha receptor sites results in a primary effect of **VASOCONSTRICTION AND SOME BRONCHOCONSTRICTION**
3. Name the two cholinergic receptor sites.
 - a. **MUSCARINIC**
 - b. **NICOTINIC**
4. Sympathetic neurons come off the spinal cord at which location? **THORACIC & LUMBAR**
5. Parasympathetic neurons come off the spinal cord at which location? **CRANIAL SACRAL**
6. Which two enzymes destroy epinephrine and norepinephrine?
 - a. **COMT**
 - b. **MAO**
7. Acetylcholine is destroyed by the enzyme
 - a. **CHOLINESTERASE (ACETYLCHOLINESTERASE)**
8. What receptor site is found at the axon terminal in the somatic nervous system?
 - a. **NICOTINIC**
9. Name the receptor site located at the ganglia of the sympathetic and parasympathetic nervous system
 - a. **PRE-GANGLIONIC: NICOTINIC**
 - b. **POST-GANGLIONIC SYMPATHETIC: ALPHA, BETA, DOPAMINERGIC**
 - c. **POST-GANGLIONIC PARASYMPATHETIC: MUSCARINIC**

10. List the neurotransmitter at each of the following locations
- a. Preganglia of sympathetic NS **ACETYLCHOLINE**
 - b. Preganglia of parasympathetic NS **ACETYLCHOLINE**
 - c. Postganglia of sympathetic NS **EPINEPHRINE OR NOREPINEPHRINE**
 - d. Postganglia of parasympathetic NS **ACETYLCHOLINE**

Fill in the table. List other names for the four main categories of drugs involving the ANS.

11. Sympathomimetic ADRENERGIC	12. Parasympathomimetic CHOLINERGIC
13. Sympatholytic ANTI-ADRENERGIC	14. Parasympatholytic ANTI-CHOLINERGIC

15. How many mg are in 1 mL of a 30% solution?

$$\# \text{ mg} = \# \text{ mL} \times \# \% \times 10 = 1 \times 30 \times 10 = 300 \text{ mg}$$

16. How many mg are in 1 mL of a 2.25% solution?

$$\# \text{ mg} = \# \text{ mL} \times \# \% \times 10 = 1 \times 2.25 \times 10 = 22.5 \text{ mg}$$

17. What is wrong with the following order?

Jack Doe 1/19/96

IPPB with 0.3 mL of a Alupent and 3cc normal saline x 3 days **NO FREQUENCY**

Peak flow before and after

Dr. Smith

18. Give an example of a large volume nebulizer used to deliver medication

HEART NEBULIZER, SPAG

19. A rapid developing tolerance with repeated dosages of a drug defines

TACHYPHYLAXIS