Tikrit University College of Veterinary Medicine

Dept. of. Pharm. Physo. and Biochemistry



Class: 3rd stage Subject: *Pharmacology*

Questions Bank

Pharmacology of autonomic nervous system

Q1\ fill in the blanks :
1-The autonomic nervous system classified into,,
2- Parasympathetic neurons: the parasympathetic preganglionic fibers
arise from theand from
3- Functions of the sympathetic nervous system response to,
such as
4- Functions of the parasympathetic division maintains,
such asand
5- The somatic nervous system is undercontrol, whereas the
autonomic is an
6- Types of neurotransmitters in sympathetic nervous system are
,while in parasympathetic is
7- Neurotransmission in cholinergic neurons involves sequential six
steps,
8- Types of cholinergic receptors,,,
9- Direct-Acting Cholinergic Agonists :,,,
10- Reactivation of Acetylcholine esterase
11-Acetylcholine therapeutically no importance because,
12-Therapeutic use of Pilocarpine
13- Stages of anesthesia1,23,4

- Q2// Enumerate the indirect acting of cholinergic agonists .
- Q3// The mechanism action of Organophosphates compouned.
- Q4// Enumerate the anti-muscarinic agents.

Q5// List the following :-

- 1- Drugs that dilate blood vessels by acting directly on smooth for treatment hypertensive
- 2- Site and Mechanisms of Actions of Diuretics
- 3- toxicity of digitalis.
- 4- therapeutic goal for heart failure
- 5- intropic drugs for heart failure
- 6-aim of drugs treatment Angina with example
- 7- the aim uses diuretics for heart failure and hypertensive
- Q6// write mechanism of action of the following drugs:- (lasortan, ACE inhibitors hydralazine, organic nitrets)

Q7// write short Brief Assay about the follwing sentence.

- 1-metabolism drugs can be altered by effect on liver microsomal enzymes.
- 2- IV injection100% Bioavailability
- 3-treatment with smoking are associated with decreased drug level in blood
- 4-the aim uses Thiazide diuretics. For hypertensive & heart failure

- 5-organic nitrates action for Angina treatment with Adverse effects
- 6-Distribution of an absorbed drug in the body depends on protein binding
- 7-explain the influence of PH on the dissociation characteristics of weak acids & weak bases
- 8- metabolism drugs can be altered by effect on liver microsomal enzymes.
- 9-the aim uses adrenoceptor blocking agents for Angina & hypertensive ?

Q8// differentiate between the following :-

- 1-enzyme induction &enzyme inhibition
- 2-Tolerance & Tachyphylaxis
- 3- antiplatelet drugs
- 4- fibrinolysis drugs & (mechanism of action).

Q9// Identify the following drugs

<u>drugs</u>	Action
Prazosin	Nicotinic blockers
clonidine	ACE inhibitors
trimethphan	alpha 1 selective blocker agents
hydralazine	Deplete catecholamine stores in the peripheral
	and central N.S
Captopril	acts through the release of nitric oxides
Reserpine	c2-selective agonists

Q10// Q1-defin the following :-(pharmacokinetic, Half- life (t1\2), Steady - state drug, Tolerance, Efficacy)

Q11// short Assay(2-only):-

- 1-What is volume of distribution & How is the volume of distribution of adrugs related to its Distribution from plasma.
- 2-Whats is the absorption of drug & effect of PH on the drug absorption.
- 3-What is drug metabolism & general sets of reactions of metabolized in the liver.
- 4-Receptor & Sites of drug actions.
- Q12-Mechanism action of the following agents: (Echothiophate , pirenzepine, Pralidoxime, Organophosphates compound , Neiostigmine , Carbachol).
 - Q13-Enumerate the therapeutic uses of the following: (Bethanechol, carbachol, Echothiophate, Pralidoxime, Darifenacin, Neostigmine).
- Q14-Enumerates the CNS Stimulant drugs. Mechanism action of amphetamine and adverse effects .
- Q15-Enumerates the Anticonvulsant drugs ,Mechanism action and adverse effects.
- Q16-The adverse effects of (Propranolol , Norepinephrine, Atropine).

- Q17-The mechanism of action of the (Prazocin ,Mecamylamine atenolol, tubocurar, Guanethidine, Reserpine.) .
- Q18-Therapeutic uses of the (Yohimbineine ,Phenoxybenzamine, Scoplamine, Succinylcholine, Labetalol).
- Q19-Types of adrenergic and cholinergic receptors.
- Q20- Essential characteristic of ideal general anesthesia.
- Q21-Classification of the general anesthesia.