**Faculty of Veterinary Medicine Student Name:**

**Department of Pharmacology Academic number:**

**Time allowed: 15 minutes**

**First quiz on General Pharmacology and Autonomic nervous system**

**(course 303) for 3rd,4th and 5th levels**

**N.B: All questions are obligatory to be answered (Total mark 10)**

**Question one**

**Choose the correct answer (7 Marks, one for each)**

1. **Which of the following statements regarding therapeutic index is correct?**

a-The ratio of LD 50 to the ED 50

b-The greater value of the index indicates a wide safety margin

c-Both of the above

d-None of the above

1. **An antagonist is a substance that**

a-Binds to the receptors and initiate changes in the cell function producing maximal effect

b- Binds to the receptors and initiate changes in the cell function producing submaximal effect

c-Interacts with plasma proteins and does not produce any effect

d-Binds to the receptor without directly altering their function

1. **Biotransformation of a medicinal substances results in**

a-Faster urinary excretion

b-Slower urinary excretion

c-Easier distribution

d-Higher binding to membranes

1. **Which route of drug administration is most likely to the first pass effect?**

a-Sublingual

b-Oral

c-Intravenous

d-Intramuscular

1. **Acetylcholine is not a specific neurotransmitter at**

a-Sympathetic ganglia

b-Sympathetic postganglionic nerve ending

c-Parasympathetic ganglia

d-Parasympathetic postganglionic nerve ending

(Please turn over the page)

1. **Characteristics of pilocarpine include all the following except**

a-It is a tertiary amine alkaloid

b-It causes miosis and a decrease in intraocular pressure

c-It causes a decrease in secretory and motor activity of gut

d-It is useful in treatment of glaucoma

1. **The symptoms of excessive stimulation of muscarinic receptors include all the following except**
2. Diarrhea
3. Increased salivation and bronchial excretion
4. Bradycardia
5. Weakness of all skeletal muscles

**Question Two**

**Complete (3 Marks, one for each)**

1. ………………………………………………… is a parenteral route of drug administration which is mainly used for vaccination and sensitivity testes

1. ………………………………………………… is a phenomenon which is occurred due to repeated administration of slowly excreted drugs.
2. …………………………………………………. is an example of natural tolerance.

**(End of questions)**

**Best Wishes**

**Prof. Dr. Samar M. Mouneir**