**315 PHL Lab**

**Pharmacology (1) Lab**

**Exam sample and model answers**

**‎- Choose the correct answer‎**

**‎ 1)‎ Regarding the physiological properties of skeletal muscle. All of the ‎following are true except: ‎**

1. **‎** Transmission is mediated through release of Ach that acts on Nm ‎receptors present postsynaptically on the muscle. ‎
2. It receives autonomic innervations.‎
3. It receives somatic innervation.‎

**2) Phentolamine is an adrenergic antagonists, it acts by blocking:**

1. α1- adrenergic receptor.‎
2. β1-adrenergic receptor. ‎
3. α2- adrenergic receptor.‎
4. ‎Both a & c are correct.‎
* **Fill in the Blanks**
1. α- blockers reverse the action of……………….. & abolish the effect of ……………….
2. High dose of Ach (50mcg/kg) increase the BP due to………………………..... &……………………………………..

**‎- Indicate whether the following statements are true (T) or false (F)**

‎ **1.** The cardiac muscle is excited by theophylline due to inhibition of ‎ ‎phosphodiesterase (PDE) enzyme (………).‎

‎  **2**. Physostigmine is irreversible cholinesterase inhibitor (………).‎

**Choose the correct answer‎**

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1. **‎**Transmission is mediated through release of Ach that acts on Nm ‎receptors present postsynaptically on the muscle.
2. It receives autonomic innervations.‎

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 **2) Phentolamine is an adrenergic antagonists, it acts by blocking: ‎**

1. α1- adrenergic receptor.‎
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3. α2- adrenergic receptor.‎
4. ‎Both a & c are correct.
* **Fill in the Blanks**
1. α- blockers reverse the action of adrenaline& abolish the effect ofnoradrenaline
2. High dose of Ach (50mcg/kg) increase the BP due to stimulation of sympathetic ganglia & stimulation of adrenal medulla.

**‎- Indicate whether the following statements are true (T) or false (F)**

**‎ 1.** The cardiac muscle is excited by theophylline due to inhibition of ‎ ‎phosphodiesterase (PDE) enzyme **(T).‎**

**‎ 2.** Physostigmine is irreversible cholinesterase inhibitor **(F).‎**