



PHARMACOLOGY TEST BANK 2021

DONE BY:

ALZAHRAA ABU-ZAHRA & HEBA SHUBEIR

3RD WEEK

Q1: The case of the following which characterized SENSITIVITY property of receptors :

- A) Complementarity of shape between drug and receptor .
- B) Complementarity between the electrostatic, hydrophobic, and hydrogen bonding surfaces of each component.
- C) Amplification of signal pathway ; 1 molecule of the drug gave me 10K of a response .
- D) Presence of the subgroups of receptors ; alpha and beta adrenergic receptors .

Q2: The wrong statement of the following regarding receptors and drugs :

- A) Most of the receptors are proteins
- B) Most drugs bind irreversibly (covalent)
- C) Not all "drugs" use receptors .
- D) Receptors determine specificity of drug action .

Q3: The correct couple (Receptor , Its Family) of the following is :

- A) Nicotinic receptors > Ligand gated channels .
- B) Adrenergic receptors > Enzyme-linked receptors.
- C) Muscarinic receptors > Intracellular receptors .
- D) None of them .

Answers: 1.C 2.B 3.A

Q4: The Family of receptors in which their ligands must have sufficient lipid solubilities to be able to move across the target cell membranes .

- A) Ligand gated channels .
- B) Enzyme-linked receptors.
- C) Intracellular receptors (nuclear receptors) .
- D) G-protein coupled receptors .

Q5: When the drug itself did not initiate a signaling cascade, it just prevented the endogenous ligand from initiating its own endogenous cascade ,then this drug is :

- A) Agonist
- B) Reverse Agonist
- C) Antagonist
- D) B+C

Q6: Antagonists are considered as non-competitive when :

- A) The binding to the binding site of receptors is irreversible .
- B) The binding to their receptors is reversible .
- C) The binding is to a remote site ,causing allosteric effect .
- D) More than one answer are true.

Answers: 4.C 5.C 6.D

Q7: Which of the following are examples of drugs that target cell-surface receptors ?

- A) Estrogen receptors antagonists .
- B) Mineralocorticoid receptors antagonists .
- C) Calcium channels blockers .
- D) Angiotensin receptors blockers .

Q8: In order to treat depression , Selective Serotonin Reuptake Inhibitors (fluoxetine) are given to prevent the rapid uptake of serotonin to stay longer time in the synapse , This Drug Is An Example Of :

- A) Signal Transduction Proteins Inhibitors.
- B) Enzymes Inhibitors .
- C) Ion Channels Blockers .
- D) Transport Inhibitors .

Q9: When one molecule of epinephrine (after binding to its receptor) can make 100 molecules of active G protein resulting in activation of 100 molecules of adenylyl cyclase , this is due to which property of receptors ?

- A) Specificity
- B) Sensitivity .
- C) Selectivity .
- D) All of the choices are correct.

Answers: 7.D 8.D 9.B