

ANS Pharmacology

- **Multiple Choice Test Bank questions**

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

Q1 : What is the primary mechanism of action of beta blockers?

- A) Blockade of calcium channels**
- B) Inhibition of angiotensin-converting enzyme (ACE)**
- C) Blockade of beta-adrenergic receptors**
- D) Enhancement of serotonin release**

Answer: C) Blockade of beta-adrenergic receptors

Q2 : Beta blockers are contraindicated in patients with which condition?

- A) Asthma**
- B) Diabetes mellitus**
- C) Hypertension**
- D) Rheumatoid arthritis**

Answer: A) Asthma

Q3 : Beta agonists are commonly prescribed for the management of:

- A) Hypertension**
- B) Hyperthyroidism**
- C) Asthma and COPD**
- D) Diabetes mellitus**

Answer: C) Asthma and COPD

Q4 : Increased heart rate and dilated pupils are associated with the activation of the:

- A) Sympathetic nervous system
- B) Parasympathetic nervous system
- C) Both systems
- D) None of the above

Answer: A) Sympathetic nervous system

Q5 : What is the main neurotransmitter released by the parasympathetic nervous system?

- A) Dopamine
- B) Acetylcholine
- C) Norepinephrine
- D) GABA

Answer: B) Acetylcholine

Q6 : The parasympathetic nervous system is most active during:

- A) Stressful situations
- B) Rest and digestion
- C) Physical activity
- D) Fight responses

Answer: B) Rest and digestion

Q7 : Which division of the autonomic nervous system is responsible for the "fight or flight" response?

- A) Sympathetic**
- B) Parasympathetic**
- C) Central**
- D) Somatic**

Answer: A) Sympathetic

Q8 : Which of the following is a typical effect of the parasympathetic nervous system activation?

- A) Increased heart rate**
- B) Dilation of bronchioles**
- C) Pupil dilation**
- D) Increased digestion**

Answer: D) Increased digestion

Q9 : During sympathetic activation, what effect does it have on the respiratory system?

- A) Increased breathing rate**
- B) Decreased breathing rate**
- C) No effect on breathing**
- D) Constriction of airways**

Answer: A) Increased breathing rate

Q10: Which of the following is a characteristic of the sympathetic nervous system's response to stress?

- A) Increased salivation
- B) Increased blood flow to digestive organs
- C) Dilation of pupils
- D) Decreased heart rate

Answer: C) Dilation of pupils

(لَا إِلَهَ إِلَّا اللَّهُ وَحْدَهُ لَا شَرِيكَ لَهُ ، لَهُ الْمُلْكُ ، وَلَهُ
الْحَمْدُ ، وَهُوَ عَلَى كُلِّ شَيْءٍ قَدِيرٌ)

Q11 : What is the primary effect of alpha-1 receptor activation?

- A) Vasodilation
- B) Decreased heart rate
- C) Vasoconstriction
- D) Increased cardiac output

Answer: C) Vasoconstriction

Q12: Which alpha blocker drug is commonly used to treat hypertension and glaucoma?

- A) Clonidine
- B) Prazosin
- C) Phenylephrine
- D) Dobutamine

Answer: B) Prazosin

Q13: Which of the following is a long-acting beta-2 agonist commonly used in the management of asthma and COPD?

- A) Albuterol
- B) Salmeterol
- C) Epinephrine
- D) Terbutaline

Answer: B) Salmeterol

Q14: Which alpha blocker is often used to manage symptoms of benign prostatic hyperplasia (BPH)?

- a) Atenolol
- b) Tamsulosin
- c) Lisinopril
- d) Metoprolol

Answer: b) Tamsulosin

Q15: What is the primary neurotransmitter deficiency associated with Parkinson's disease?

- a) Serotonin
- b) Dopamine
- c) Acetylcholine
- d) Norepinephrine

Answer: b) Dopamine

Q16: What is the primary role of acetylcholine in the nervous system?

- A) Muscle contraction**
- B) Digestion**
- C) Blood clotting**
- D) Vision**

Answer: A) Muscle contraction

Q17: Which enzyme is responsible for breaking down acetylcholine in the synaptic cleft?

- A) Amylase**
- B) Catalase**
- C) Acetylcholinesterase**
- D) Lipase**

Answer: C) Acetylcholinesterase

Q18: What type of receptor does acetylcholine primarily bind to at the neuromuscular junction?

- A) Beta-adrenergic receptor**
- B) Nicotinic receptor**
- C) Muscarinic receptor**
- D) Alpha-adrenergic receptor**

Answer: B) Nicotinic receptor

Q19: What is a common side effect of atropine overdose?

- a) Hypertension
- b) Hypoglycemia
- c) Bradycardia
- d) Dry mouth and blurred vision

Answer: d) Dry mouth and blurred vision

Q20: Which beta blocker is commonly used in the treatment of angina and post-myocardial infarction?

- a) Propranolol
- b) Metoprolol
- c) Atenolol
- d) Nebivolol

Answer: b) Metoprolol

وَأَنْ لَيْسَ لِلْإِنْسَانِ إِلَّا مَا سَعَى ۚ وَأَنْ سَعْيُهُ سَوْفَ يُرَى ۚ
ثُمَّ يُجْزَاهُ الْجَزَاءَ الْأَوْفَى ۚ وَأَنْ إِلَى رَبِّكَ الْمُنْتَهَى ۚ
وَأَنْهُ هُوَ أَضْحَكَ وَأَبْكَى ۚ وَأَنْهُ هُوَ آمَاتٌ وَأَحْيَا ۚ