

1-Which of the following is/are correct?

- A) All cardiac actions are predominantly β_1 receptor-mediated
- B) Synthesis of NA occurs in all adrenergic neurons
- C) Vasoconstriction occurs through both α_1 and α_2 receptors
- D) All of the above

Answer:D

2-Which of the following has been explored as a cognition enhancer?

- A) α 1 agonist
- B) α 2 antagonist
- C) Hydrogenated ergot alkaloids
- D) β blockers

Answer:c

3-Which of the following is known for its use in managing symptoms of mental decline in the elderly?

- A) α 1 agonist
- B) α 2 antagonist
- C) Hydrogenated ergot alkaloids
- D) β blockers

Answer:C

4-Which of the following alkaloids derived from the ergot fungus ?

- A) Tolazoline
- B) Ergotoxine
- C) Yohimbine
- D) Ergotamine
- E) B+D

Answer:E

5-Which type of α blocker is known for its nonequilibrium mechanism of action?

- A) β Haloalkylamines
- B) Ergot alkaloids
- C) Imidazolines
- D) α_1 selective blockers

Answer:A

(not sure if this is required)

6-Which receptors do blockers primarily block to cause a decrease in peripheral resistance and pooling of blood?

- A) α 1 receptors
- B) α 2 receptors
- C) β 1 receptors
- D) β 2 receptors
- E) A+B

Answer:E

7-Which type of receptor is primarily responsible for vasoconstriction in cutaneous, mucous membranes, and renal beds?

- A) α 1 receptor
- B) α 2 receptor
- C) β 2 receptor
- D) β 1 receptor
- E) 2 of the above

Answer:E

8-Which of the following medications is primarily used in the treatment of bronchial asthma?

- A) Salbutamol(β 2agonist)
- B) prazosin(α 1 blocker)
- C) Salmeterol(β 2agonist)
- D) A+C

Answer:D

9-When it comes to increasing heart rate and cardiac contraction, what role does adrenaline (ADR) play?

- A) Suppresses the automaticity of the SA node
- B) Activates latent pacemakers in the AV node
- C) Decreases the force of cardiac contraction
- D) Inhibits the β_1 receptors

Answer:B

10-Which neurotransmitter is also known as epinephrine?

- A) Acetylcholine
- B) Noradrenaline
- C) Tyrosine
- D) Adrenaline

Answer:D

11-Which type of sympathomimetic drug acts directly as agonists on α and/or β adrenoceptors?

- A) Direct sympathomimetics
- B) Indirect sympathomimetics
- C) Mixed action sympathomimetics

Answer:A

12-Which enzyme is responsible for the initial breakdown of the leaked norepinephrine (NA) in the cytoplasm?

- A) Catechol-o-methyl transferase (COMT)
- B) Monoamine oxidase (MAO)
- C) Phenylalanine hydroxylase
- D) Adrenal medullary cells

Answer:B

13-Which of the following is NOT a potential side effect of α blockers?

- A) Palpitation
- B) Postural hypotension
- C) Nasal blockage
- D) Fluid retention
- E) induce cardiac stimulation

Answer:E

14-Which of the following is NOT a therapeutic use of β blockers?

- A) Hypertension
- B) Angina pectoris
- C) Cardiac arrhythmias
- D) All of the above are therapeutic uses of β blockers

Answer:D