

Doctor 021

PHARMACOLOGY

Sheet no. Test Bank Final



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PHARMACOLOGY TEST BANK

1. The drug used in treatment of cognitive dysfunction in Alzheimer's patient , is :

- A- Cevimeline .
- B- Pilocarpine
- C- Donepezil .
- D- Physostigmine .
- E- Neostigmine .

Answer : C

2. Botulinum toxin interferes with cholinergic transmission by :

- A- inhibiting choline transporter .
- B – inhibiting choline acetyl transferase enzyme .
- C- inhibiting vesicle associated transporter
- D- interfering with exocytosis .
- E- interaction with post synaptic receptor .

Answer : D

3. Atropine effect an para sympathetic function decline rapidly In all organ except :

- A- The heart .
- B- The eye .
- C- The urinary bladder .
- D- The CNS .
- E- The salivary gland .

Answer : B

4. The alpha blocker that has the least effect on vascular smooth muscle is :

A- Phentolamine .

B- Prazosine .

C- Labetalol .

D- Yohimbine .

E- Tamsulosin .

Answer : D Type your text

5. Which one the following drug is not useful in treating glaucoma :

A- Methacholine.

B- Carbacol .

C- Physostigmine .

D- Edrophonium.

E- Echothiophate.

Answer; D

6. α -latrotoxine (blake window spider venom) act on :

A- Ca channel to reduce NE and Ach release .

B- Vesicles causing explosive release of NE and Ach .

C- Vesicles associated transporter to inhibiting transmitter .

D- Baroreceptors to enhance vagal tone causing heart arrest .

E- VAMT causing a depletion of the transmitter .

Answer : B

7. Nonselective beta blocker /alpha-1 blocker , calcium channel blocker with antioxidant property :

A- Labetalol .

B- Nebivolol.

C- Carvedilol.

D- Bisoprolol.

E- Sotalol.

Answer : C

8. Vasodilation of renal vessel may be produce by :

A- Norepinephrine .

B- Dubutamine .

C- Isoproterenol.

D- Epinephrine .

E- Dopamine .

Answer ; E

9. Which one of the following cholinesterase inhibitor is naturally occurring carbamate ?

A- Physostigmine

B- Edrophonium .

C- Demecarium .

D- Pyridostigmine.

E- Neostigmine.

Answer : A

10. The most widely used cholinergic drug in treating postoperative ileus is :

A- Acetylcholine .

B- Carbachol .

C- Methanochol.

D- Physostigmine .

E- Bethanechol.

Answer ; E

11. Direct acting alpha 1 agonist with significant affinity for alpha 2A receptor . when taken in large doses it may cause hypotension , because of central cholined-like effect it is ;

- A- Guanfacine .
- B- Midodrine.
- C- Phenylephrine .
- D- Methoxamine.
- E- Oxymetazoline.

Answer ; E

12. The effectiveness of nonselective antimuscarinic drugs in treating bronchial asthma is limited because:

- a. Local hormones and other transmitters also modulate lung functions .
- b. Cholinergically – mediated bronchoconstriction is not significantly high.
- C .Secretion of mucus by way of M1 receptors is more important in asthma
- d. only high doses can effectively block bronchial
- e .Block of autinhibitory M2 oppose the bronchodilation caused by block of m3 receptors on airway.

ANSWER :E

13. Which one of the following statements regarding clonidine is not correct

- a. Stimulates a2A adrenoceptors in the vasomotor center in brainstem causing a decrease in BP and cardiac output .
- b. Overdose blocks peripheral al adrenoceptors and cause hypotension
- c. The site for its sedative action is in the locus ceruleus of the brine stem
- d. The site for its analgesic action is in the spinal cord
- e. Has antishivering and diuretic actions

ANSWER :B

14. All the following statements are true regarding pindolol, EXCEPT;

- a. It is effective in hypertension and angina
- b. It is less likely to cause bradycardia than other beta blockers
- c. It is a B₁-selective antagonist with a partial B₂-agonist activity
- d. It is also a 5-HT_{1A} antagonist
- e. It may accelerate the antidepressant effect of selective serotonin reuptake inhibitors

ANSWER : C

15. An increase in LDL and decrease in HDL are side effects most likely to occur Administration of;

- a. Propranolol
- b. Prazosin
- c. Phenoxybenamine
- d. Celiprolol
- e. Nebivolol

ANSWER : A

16. Stimulation of M₂ receptors in the heart may cause all the following EXCEPT:

- a. Opening of K⁺ channel Causing hyperpolarization.
- b. Voltage-dependent opening of pacemaker Na⁺ channels is shifted to more negative Potentials
- c. The phosphorylation of L-type Ca²⁺ channels is reduced.
- d. M₂R stimulates G_i protein producing an excitatory postsynaptic potential (EPSP).
- e. Decrease cAMP formation causing a decrease in heart rate

Answer ; D

17. Which one of the following organs has only parasympathetic innervations?

- a. The Iris.
- b. The Ciliary muscle.
- c. The SA node.
- d. Urinary bladder wall.
- e. Sphincters of the gastrointestinal tract.

Answer :B

18. Which of the following drugs causes a slight increase in systolic blood pressure and a decrease in diastolic pressure ?

- (A) Bethanechol
- (B) Epinephrine
- (C) Isoproterenol
- (D) Methacholine

ANSWER: C

19. One of the following is a prodrug , that is enzymatically hydrolyzed to metabolites used to treat orthostatic hypotension :

- (A) Phenylephrine
- (B) Methoxamine
- (C) Midodrine
- (D) Clonidine

ANSWER: C

20. Which of the following drugs is an α -agonist used for sedation of intubated patients ?

- (A) Dexmedetomidine
- (B) Guanfacine
- (C) Methyldopa

(D) Oxymetazoline

ANSWER: A

21. Which one of the following drugs is used mainly for cardiac shock?

- (A) Isoproterenol
- (B) Phentolamine
- (C) Yohimbine
- (D) Dobutamine

ANSWER: D

22. Which one of the following drugs is a beta agonist drug used to suppress premature labor ?

- (A) salbutamol
- (B) Isoproterenol
- (C) ritodrine
- (D) Amphetamine

ANSWER: C

23. Which one of the following drugs is a psychostimulant that increases interstitial norepinephrine and dopamine , while decreasing (GABA) levels ?

- (A) Methylphenidate
- (B) Modafinil
- (C) Amphetamine
- (D) Atropine

ANSWER: B

24. Which one of the following drugs is used to treat cardiac block ?

- (A) albuterol
- (B) isoproterenol

- (C) methoxamine
- (D) oxymetazoline

ANSWER: B

25. One of the following drugs decreases the intraocular pressure :

- (A) Atropine
- (B) Apraclonidine
- (C) Albuterol
- (D) terbutaline

ANSWER: B

26. Which one of the following drugs may cause severe tachycardia and arrhythmia (as side effects)?

- (A) atenolol
- (B) propranolol
- (C) yohimbine
- (D) phentolamine

ANSWER: D

26. Which one of the following drugs is a nonselective beta blocker used in treating hypertension and congestive heart failure?

- (A) bisoprolol
- (B) Carvedilol
- (C) Metoprolol
- (D) Atenolol

ANSWER: B

27. Dry mouth, sandy eyes, hallucinations, tachycardia, cycloplegia are signs of poisoning with which of the following drugs?

- (A) Atropine
- (B) Cocaine
- (C) parathion
- (D) malathion

ANSWER: A

30. The following statement is wrong about ephedrine :

- (A) Displaces stored catecholamines from nerve endings
- (B) inhibits catecholamine release
- (C) Sometimes used for narcolepsy
- (D) may causes hypertension

ANSWER: B

31. Which of the following is common between epinephrine and norepinephrine:

- (A) both have the same effect on β 2 receptors
- (B) both increase diastolic and systolic blood pressure
- (C) both increase systolic blood pressure
- (D) both increase diastolic blood pressure

ANSWER: C

32. Which one of the following is less marked for prazosin than phentolamine?

- (A) selectivity of for the postsynaptic alpha-receptor
- (B) effectiveness in treating Orthostatic hypotension
- (C) reflex tachycardia
- (D) duration of action

ANSWER: C

33. Which one of the following drugs is used to improve perfusion to the kidney in situations of oliguria ?

- (A) epinephrine
- (B) dobutamin
- (C) dopamine
- (D) norepinephrine

ANSWER: C

34. Which one of the following drugs is used in the case of difficult breathing and narrow airways ?

- (A) albuterol
- (B) Dobutamine
- (C) Amphetamine
- (D) Cocaine

ANSWER: A

35. Which one of the following is a nonspecific beta blocker ?

- (A) bisoprolol
- (B) Nebivolol
- (C) propranolol
- (D) Esmolol

ANSWER: C

36. Which one of the following is wrong about carvedilol ?

- (A) have combined α - and β -blocking actions
- (B) used to treat Hypertension
- (C) used to treat acute heart failure
- (D) can be given orally

ANSWER: C

37. One of the following is not a pharmaceutical action of beta blockers :

- (A) bronchodilation
- (B) decreasing cardiac output
- (C) decreasing contractility
- (D) local anesthetic action

ANSWER: A

38. Which one of the following drugs is an ultra short acting beta blocker ?

- (A) Esmolol
- (B) Bisoprolol
- (C) Nepivolol
- (D) Metoprolol

ANSWER: A

39. Which one of the following is not affected by the compensat² baroreflex activation :

- A. The inotropic action
- B. The chronotropic action
- C. The positive dromotropic action
- D. The cardiac output
- E. The refractory period

ANSWER: A

40. High IV infusion rate of dopamine may cause all the following effects; EXCEPT:

- A. Vasodilation of renal vessels
- B. Vasoconstriction effect
- C. Positive dromotropic effect

D. Positive chronotropic effect

E. Positive Inotropic effect

ANSWER: A

41. The drug used to produce sedation in initially intubated and mechanically ventilated-patients during treatment in an intensive care setting, is :

A. Clonidine

B. Guanfacine

C. Dexmedetomidine

D. Atomoxetine

E. Oxymetazoline

ANSWER:

42. The D1-receptor agonist used in the IV treatment of severe hypertension is:

A. Terbutaline

B. Dobutamine

C. Methyldopa

D. Methoxamine

E. Fenoldopam

ANSWER: E

43. When taken in large doses, one of the following vasoconstrictor drugs, may cause hypotension, because of a central clonidine -like effect. The drug is:

A. Methoxamine

B. Guanfacine

C. Oxymetazoline

D. Phenylephrine

E. Pseudoephedrine

ANSWER: C

44. A nonselective beta blocker/alpha-1 blocker and a calcium channel blocker, is:

- A. Labetalol
- B. Carvedilol
- C. Nebivolol
- D. Bisoprolol
- E. Metoprolol

ANSWER:

45. Which of these drug prevent of premature labor:

- A. Ritodrine
- B. Terbutalin
- C. salbutanol

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ANSWER: A

46. Which of these muscles Contains only cholinergic receptors :

- A. cardiac muscles
- B. ciliary muscles
- C. smooth muscles

ANSWER: B

47. Which one of the following drugs has been used extensively in patients with thyroid storm ?

- A. Timolol
- B. Propranolol
- C. Mecamylamin

ANSWER: B

48. The drug that used for the treatment of narcolepsy is:

- A. Methamphetamine
- B. Methylphenidate
- C. Tyramine
- D. Modafinil

ANSWER: D

49. The beta blocker with the least effect on carbohydrate metabolism, is:

- A. Sotalol
- B. Timolol
- C. Propranolol
- D. Nebivolol

ANSWER: D

50. The beta blocker that is not expected to cause an acute increase in total peripheral resistance is:

- A. Propranolol
- B. Atenolol
- C. Labetalol
- D. Bisoprolol

ANSWER: C

51. The beta blocker that is less likely to cause bradycardia, is :

- A. Pindolol
- B. Carvedilol
- C. Timolol
- D. Sotalol

ANSWER: C

52. The rate limiting step in the biosynthesis of NE is the:

- A. transport of tyrosine across the neuronal membrane
- B. hydroxylation of tyrosine
- C. decarboxylation of DOPA
- D. hydroxylation of DOPA into dopamine

ANSWER: B

53. The muscarinic receptors on airway passages that promote bronchoconstriction are :

- A. M1 receptors
- B. M2 receptors
- C. M3 receptors
- D. M4 receptors

ANSWER: C

54. Regarding chemotherapy which is true ?

- A- The less closely related the undesirable cells are to the normal human cell, the more difficult the task of finding a magic bullet .
- B- The more closely related the undesirable cells are to the normal human cell, the less difficult the task of finding a magic bullet .
- C- The more closely related the undesirable cells are to the normal human cell, the more difficult the task of finding a magic bullet .
- D- Effective chemotherapeutic drugs are not effective by the common genetic human share with all living organisms .
- E- None of the above

Answer : C

55. Among the following which is the least resistant to β -lactamases ?

- A- Nafcilline
- B- Oxaciliine
- C- Cloxacilline
- D- Dicloxacilline
- E- Pencilline .

Answer : E

56. Among the following which is the true sentence ?

- A- The cell walls of bacteria are not essential for their normal growth .
- B- Peptidoglycan provide rigid mechanical stability for bacteria cell wall .
- C- In gram-negative bacteria the cell wall is 50 to 100 molecules thick .
- D- The cell wall is only 1or 2 molecules thick in gram-positive bacteria .
- E- All the above .

Answer : B

57. Regarding antibiotic which is true ?

- A- Patient should not be instructed to continue antibiotic for the full duration indicated , if they feel better to avoid resistance .
- B- If the patient recovery is delayed from what is reasonably expectable , the diagnosis should not be reconsidered .
- C- Influenza pneumonia and viral upper respiratory infection for example , are usually controlled by antibiotic .
- D- Many patient receive lengthy course of antibiotic that that probably should not have been started .
- E- All the above .

Answer ; D

59. Regarding static effect of chemotherapeutic drug which is false?

- A- Occur when the toxic effect of chemotherapeutic drug are reversible .
- B- Depends on the pharmacological properties of the drug .
- C- Occur when the toxic effector of the chemotherapeutic drug are irreversible .
- D- Depend on the immune system function .
- E- All the above .

Answer ; C

60. The synergism that occurs between aminoglycoside and B-lactam antibiotic drug is partially due to which of the following :

- a. B-lactam antibiotics will reverse the negative effects of both low pH and low oxygen tension on the ability of aminoglycosides to penetrate bacteria .
- b. B-lactam antibiotics will decrease pH and induce aminoglycosides to penetrate bacteria .
- c. B-lactam antibiotics will decrease oxygen and induce aminoglycosides to penetrate bacteria
- d. B-lactam antibiotics will decrease pH and inhibit aminoglycosides to penetrate bacteria .
- e. All the above

ANSWER :A

61. Regarding sulfonamides which is true:

- a. They are considered as structural agonists of para aminobenzoic (PABA)
- b. They are considered as structural analogs and competitive antagonists of Folic acid

- c. They are considered as structural analogs and competitive antagonists of para-aminobenzoic acid (PABA)
- d. They are considered as structural antagonists of penicillin
- e. None of the above

ANSWER : C

62. Regarding Beta lactam Antibiotics which is false:

- a. All contain a beta lactam ring
- b. Work to inhibit CELL WALL synthesis
- c. The beta lactam ring is the active functional group where antibiotic activity resides
- d. Work to inhibit protein biosynthesis
- e. All the above

ANSWER :D

63. Regarding the clinical uses of nitrofurantoin which is false?

- a. The singular indication for nitrofurantoin is the treatment and long-term prophylaxis of lower UTIs caused by susceptible bacteria
- b. it is used as a bacterial suppressant.
- c. It is often used prophylactically post intercourse in women with chronic UTIs
- d. The bacteriostatic or bactericidal activity of nitrofurantoin is concentration dependent
- e. None of the above

Answer :B

65. Sulphonamides are almost obsolete nowadays because of all the following except:

- a. Their Bacteriostatic properties
- b. They are associated with Blood dyscrasia
- c. Bacterial resistance
- d. Their Toxicity
- e. Their bactericidal effects

Answer : E

66. All the following B-lactamase inhibitor combinations are parenteral formulations except:

- a. ampicillin-sulbactam
- b. ticarcillin-clavulanic acid
- c. piperacillin-tazobactam
- d. clavulanic acid- amoxicillin
- e. All the above

ANSWER: D

67. Regarding Erythromycins which is true?

- a. It has Same spectrum of penicillin, so substitutes in penicillin allergic patients.
- b. It has very limited distribution in the body
- c. It Cannot be given orally

- d. Very toxic cannot be given to children
- e. All the above

Answer : A

68. Regarding the quinolone antibiotics which of the following is true?

- a. The quinolone antibiotics target bacterial RNA gyrase and Topoisomeras
- b. The quinolone antibiotics target bacterial DNA gyrase and Topoisomeras which is responsible for the continuous introduction of positive supercoils into RNA
- c. The quinolone antibiotics target bacterial viral gyrase
- d. The quinolone antibiotics target bacterial DNA gyrase and Topoisomeras which is responsible for the continuous introduction of negative supercoils into DNA
- e. None of the above

Answer : D

«وإني أعوذ بالله أن أكون في نفسي عظيمًا، وعند الله صغيرًا»
مما كان يدعو به عتبة بن غزوان رضي الله عنه -

MOHAMMAD TALAL AL-HARAHSEH

GOOD LUCK

