

9/2
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F16-029

2nd Prof. MBBS
Sendup Examinations 2017
PHARMACOLOGY
MCO's

Time Allowed: 1 Hours

Total Marks: 60.

1. Which one of the following drugs is considered to be the agent of choice for anaphylactic reactions?

- a. Clonidine (α_2 -agonist)
- b. Isoproterenol
- c. Epinephrine ✓
- d. Phenylephrine (α_1 -agonist)

2. Alkalization of urine hastens the excretion of

- a. Weakly basic drugs
- b. Weakly acidic drugs ✓ (aspirin)
- c. Strong electrolytes
- d. Nonpolar drugs

3. Which tissue has the greatest capacity to bio-transform drugs?

- a. Brain
- b. Kidney
- c. Liver ✓
- d. Lung

4. A receptor which itself has enzymatic property is

- a. Insulin receptor ✓ (Tyrosine Kinase activity)
- b. Progesterone receptor
- c. Thyroxine receptor
- d. Glucagon receptor

5. The therapeutic index of a drug is a measure of its

- a. Safety ✓ TDS_{50}/ED_{50}
- b. Potency
- c. Efficacy
- d. Dose variability

6. The antagonism between adrenaline and histamine is called 'Physiological antagonism' because

- a. Both are physiologically present in the body
- b. They act on physiological receptors
- c. Both affect many physiological processes
- d. They have opposite physiological effects ✓

By
Sodium Bicarbonate

- 15.
7. The major reason why carbidopa is of value in parkinsonism is that the compound
 - a. Crosses the blood-brain barrier
 - b. Inhibits monoamine oxidase type A (Moclobemide)
 - c. Inhibits decarboxylase ✓
 - d. Is converted to the false neurotransmitter carbidopamine
 - e. Inhibits monoamine oxidase type B (selegiline, Resegiline)
 8. Which one of the following is most effective in the management of malignant hyperthermia?
 - a. Baclofen (act at GABA-B receptor)
 - b. Danrolene ✓
 - c. Haloperidol (Typical antipsychotic)
 - d. Succinylcholine (depolarizing neuromuscular junction blocker)
 9. A 72-year-old patient with parkinsonism presents with swollen feet which are red, tender and very painful. You could clear up these symptoms within a few days if you told the patient to stop taking
 - a. Amantadine
 - b. Benztropine (anti-muscarinic)
 - c. Bromocriptine (dopamine agonist)
 - ~~d. Levodopa~~
 10. Hypotension caused by histamine is due to.
 - a. Decrease contraction of cardiac muscle
 - b. Depression of S-A node
 - c. Vasodilatation ✓
 - d. Diuresis
 11. The triad of coma, pinpoint pupil and decreased respiration points toward poisoning with
 - a. Organophosphorus
 - b. Morphine ✓ (at μ -receptor)
 - c. Mushroom
 - d. Belladonna
 12. Which of the followings is the drug of choice for Absence seizure epilepsy
 - a. Phenobarbitone
 - b. Ethosuximide ✓
 - c. Diazepam
 - d. All of the above
 13. The best drug for distinguishing between myasthenia crisis (insufficient therapy) and cholinergic crisis (excessive therapy) is
 - a. Ecothiopate
 - b. Edrophonium ✓
 - c. Physostigmine
 - d. Pralidoxime (enzyme regenerator)
 14. Which of the following drug is contraindicated in myasthenia gravis?
 - a. Neostigmine
 - b. Pyridostigmine
 - c. Quinine ✓
 - d. Ephedrine (indirect sympathomimetic)

15. The principal action common to all class I antiarrhythmic drugs is
- a. Na⁺ channel blockade ✓
 - b. K⁺ channel opener (Nicorandil)
 - c. Depression of impulse conduction
 - d. Prolongation of effective refractory period
16. Which of following drugs is useful as a selective inhibitor of monoamine oxidase type B in treating some cases of Parkinsonism?
- a. Bromocriptine
 - b. Carbidopa (dopa decarboxylase inhibitor)
 - c. Phenelzine (monoamine oxidase inhibitor)
 - d. Selegiline ✓
17. Angiotensin converting enzyme inhibitors are contraindicated in
- a. High rennin hypertensives
 - b. Diabetics
 - c. Congestive heart failure patients
 - d. Pregnant women ✓
18. Which of the followings is a leukotriene receptor blocker?
- a. Alprostadil
 - b. Aspirin (COX inhibitor)
 - c. Ibuprofen
 - d. Zafirlukast ✓ (Montelukast)
19. Methylxanthines have following adverse effects except.
- a. Palpitations
 - b. Deferral of fatigue
 - c. Constipation ✓
 - d. Tremors
20. Atropine is an antidote for
- a. Organophosphate poisoning
 - b. Phsostigmine poisoning.
 - c. Mushroom poisoning
 - d. All of the above ✓
21. Use of ergot alkaloids is contraindicated in.
- a. Postpartum haemorrhage
 - b. Obstructive vascular disease ✓
 - c. Inflammatory bowel disease
 - d. Amoebic dysentery
22. Naturally occurring catecholamine can be synthesized from which of the following substance.
- a. Tyramine
 - b. Tyrosine ✓
 - c. Metyrosine
 - d. Reserpine

23. A 51 years old man is started with lisinopril after being found to have an average pressure of 154/93 on ambulatory blood pressure monitoring. After starting treatment presents with dry cough. Which one of followings is responsible for it

- a. Adenosine
- b. ~~Histamine~~
- c. ~~Bradykin~~ ✓ Bradykinin ✓
- d. Acetylcholine

24. Proton pump inhibitors include the followings except

- a. Omeprazole
- b. ~~Pirenzepine~~ ✓ (M1 blocker)
- c. Lansoprazole
- d. Pantoprazole

25. Which is a reversible cholinesterase inhibitor that is indicated for the treatment of Alzheimer's disease?

- a. ~~Tacrine~~ ✓
- b. Edrophonium
- c. Pyridostigmine
- d. Ambenonium

26. Which of following drugs is useful as a selective inhibitor of monoamine oxidase type B in treating some cases of parkinsonism?

- a. Bromocriptine
- b. Carbidopa
- c. Phenelzine
- d. ~~Selegiline~~ ✓, Resegiline

27. Chloramphenicol is now rarely used because it causes.

- a. ~~Skin rash~~
- b. ~~Bone marrow depression~~ ✓
- c. Cross resistance
- d. Nephrotoxicity

28. Which of the following may precipitate an attack of open angle glaucoma if instilled in the eye?

- a. Physostigmine
- b. ~~Atropine~~ ✓
- c. Pilocarpine
- d. Ecothiophate

29. Which of the following drugs is a Class IA antiarrhythmic drug:

- a. Sotalol (class-3)
- b. Propranolol (class-2)
- c. Verapamil (class-4)
- d. ~~Quinidine~~ ✓ [Procainamide]

30. Quinolones are contraindicated in children under 12 years of age because they cause

- a. Nephrotoxicity
- b. Ototoxicity
- c. ~~Destruction of growing cartilage~~ ✓
- d. Bone marrow depression

→ cyclopentolate
→ Tropicamide
→ Homatropine

47. Before your ophthalmologist dilates your eyes with ant-muscarinic drug, he should typically check your

- a. Blood pressure
- b. Intraocular pressure ✓
- c. Temperature
- d. ECG

48. Which of the following drugs is selective COX-2 inhibitor

- a. Piroxicam
- b. Indomethacin
- c. Celecoxib ✓ (Meloxicam)
- d. Diclofanac

49. Indicate the skeletal muscle relaxant, which is a depolarizing agent:

- a. Vecuronium (non-depolarizing)
- b. Scopolamine (anti-muscarinic)
- c. Succinylcholine ✓
- d. Hexamethonium (Ganglionic blocker)

50. For digitalis induced arrhythmias which of the following drugs is favored

- a. Verapamil
- b. Amiodarone
- c. Lidocaine ✓
- d. Propranolol

51. Foods containing tyramine should be avoided when taken with which class of the medications?

- a. Tricyclic antidepressants (Impramine)
- b. Monoamine oxidase inhibitors ✓
- c. SSRIs (Selective serotonin reuptake inhibitors)
- d. Antihypertensive drugs

52. Which of the following drugs causes bronchodilation without significant cardiac stimulation?

- a. Isoprenaline ~~(β -agonist)~~ [β -nonselective agonist]
- b. Terbutaline (β_2 -agonist)
- c. Xylometazoline (α_1, α_2 -agonist)
- d. Methoxamine (α_1 -agonist)

53. Cardiac glycoside induced toxicity is precipitated by which of the following

- a. Opening K channel
- b. Opening Na channels
- c. Inhibiting Na/K pump
- d. Hypokalemia ✓

54. The specific antidote for Heparin is:

- a. Vitamin k (warfarin)
- b. Folic acid (Methotrexate)
- c. Protamine sulphate ✓
- d. Vit C