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Examination, 2022-23

Course Name: PHARMA

Year: First Year

Branch: M Pharm

Subject: Advance pharmacology

Time – 3 hours

Maximum marks- 75

Number of printed pages - 2

Note: - Attempt all Parts.

PART – A

(QUESTION NO. 1 TO 10. ATTEMPT ALL QUESTIONS)

(10 X 2 =20)

1. Examine which of the following statement is true for ACE inhibitors?
 - a) ACE inhibitors reduce both cardiac preload and afterload, thereby decreasing cardiac work
 - b) ACE inhibitors increase both angiotensin II and bradykinin levels
 - c) ACE inhibitors decrease both angiotensin II and bradykinin levels
 - d) None of the above
2. The desired physicochemical properties of drugs are:
 - a) Ionized, less plasma protein bound, lipid soluble
 - b) Unionized, less plasma protein bound, lipid soluble
 - c) Unionized, highly plasma protein bound, lipid soluble
 - d) Unionized, highly plasma protein bound, lipid-insoluble
3. Out of the following which is a direct renin inhibitor?
 - a. Olmesartan
 - b. Eplerenone
 - c. Aliskiren
 - d. None of the above
4. From the given options the cellular mechanism of action of digoxin is:
 - a. Inhibition of cAMP synthesis
 - b. Inhibition of b-adrenergic stimulation
 - c. Inhibition of ATP degradation
 - d. Inhibition of Na + K + ATPase
5. Analyse mechanism(s) of local anaesthetic action in epidural anaesthesia:

- a) Direct local anaesthetics action on nerve roots and spinal cord following local anaesthetics diffusion across the dura.
 - b) Diffusion of local anesthetic into paravertebral regions through the intervertebral foramina
 - c) Both
 - d) None
6. The excess of produced neurotransmitters by presynaptic neurons is _____.
- (a) Taken up by postsynaptic neurons
 - (b) Recycled back into the presynaptic neuron
 - (c) Removed and taken around the rest of the body
 - (d) Eliminated by substances contained within the cell body
7. Examine which of the following will cause seizure relief as well as Muscle relaxation?
- a) Phenobarbital
 - b) Lorazepam
 - c) Flumazenil
 - d) Thiopental
8. Recognize the choline ester resistant to both true and pseudo- cholinesterase from the given options
- a. Bathenechol
 - b. Butyrylcholine
 - c. Methacholine
 - d. Benzoylcholine
9. Scrutinize which of the following statements about histamine is correct?
- a) Histamine is stored in peripheral nerve endings.
 - b) Histamine is released from mast cells following an allergic challenge.
 - c) Histamine is a vasoconstrictor
 - d) Histamine is an essential amino acid.
10. Notify the location of CYP450

Part B

(QUESTION NO. 11 TO 13. ATTEMPT ANY 2)

(2 X 10 = 20)

- 11. Put a record on the steps involved in the neurotransmission of acetylcholine.
- 12. Give an account on receptor families and a descriptive note on transmembrane jak-stat binding receptors.
- 13. Summarize local anesthetics, their mechanism of action and uses taking Lignocaine as a prototype drug.

PART – C

(QUESTION NO. 14 TO 21. ATTEMPT ANY 5)

(5 X 7 = 35)

- 14. Define Diuretics. Classify them. Shed a light on mechanism of action of furosemide.
- 15. Explicate zero-order kinetics and first order kinetics

16. Inscribe the complete pharmacology of histamine
17. Shed light on anti-arrhythmics drugs.
18. Give an account on phenytoin.
19. Write the complete profile of Statins.
20. Describe cholinergic drugs, classify them.
21. Give a complete record of diazepam.
22. Discuss the Antihyperlipidemics drug.