



- Notes :
1. Diagrams and Chemical equation should be given wherever necessary.
  2. Illustrate your answers wherever necessary with the help of neat sketches.
  3. All questions are compulsory.

**1. Multiple choice questions.**

**20**

- 1) All preganglionic autonomic neurons secrete:
  - a) Epinephrine
  - b) Acetylcholine
  - c) Nicotine
  - d) Dopamine
- 2) A drug which block the beta adrenergic receptors are -----
  - a) Dilatation of the bronchial muscle
  - b) Relaxation of the sphincters in the alimentary canal
  - c) Inhibition of cardiac properties
  - d) Dilatation of the visceral blood vessels
- 3) The autonomic nervous system is involved in the following functions Except:
  - a) Initiation of smooth muscle contraction
  - b) Initiation of sweat secretion
  - c) Initiation of heart beats
  - d) Inhibition of gastrointestinal motility
- 4) Block of beta2 adrenergic receptors causes:
  - a) Decreased heart rate
  - b) Bronchodilatation
  - c) Increased insulin secretion from the pancreas
  - d) Inhibition of rennin secretion from the kidney
- 5) Activation of alpha adrenergic receptors would:
  - a) Increase rennin secretion from the kidney
  - b) Constrict pulmonary arterioles
  - c) Constrict bronchiole
  - d) Dilate cerebral arterioles
- 6) Which of the following skeletal muscle relaxant is shortest acting?
  - a) D-tubocuraine
  - b) Pancuronium
  - c) Cisatracurium
  - d) Succinyl choline
- 7) Miotics include-----
  - a) Anticholinesterase
  - b) Adrenergic agonist
  - c) Ganglionic blocker
  - d) Antimuscarinic
- 8) Parasympathomimetics produce-
  - a) Miosis, bradycardia, bronchodilatation
  - b) Mydriasis, bradycardia, bronchoconstriction
  - c) Miosis, bradycardia, bronchoconstriction
  - d) Miosis, tachycardia, bronchoconstriction

- 9) Following are the drugs effective in glaucoma, EXCEPT -----
  - a) Dipivefrine
  - b) Pilocarpine
  - c) Timolol
  - d) Dopamine
- 10) Timolol reduces the intraocular pressure by-----
  - a) Reducing the aqueous humor secretion
  - b) Producing miosis
  - c) Producing mydriasis
  - d) Constricting the ciliary blood vessels
- 11) Following are the drugs instilled locally into the eye in glaucoma EXCEPT -----
  - a) Timolol
  - b) Dorzolamide
  - c) Acetazolamide
  - d) Dipivefrine
- 12) The cholinomimetic drug which is not an alkaloid-----
  - a) Acetylcholine
  - b) Muscarine
  - c) Pilocarpine
  - d) Arecoline
- 13) Which of the following is the most toxic effect of atropine in children?
  - a) Hypotension
  - b) Tachycardia
  - c) Hyperthermia
  - d) Hypertension
- 14) Ultra-Short acting barbiturate is -----
  - a) Thiopentone
  - b) Phenobarbitone
  - c) pentobarbitone
  - d) All of the above
- 15) Which one of the following drug is Bronchodilator?
  - a) Salbutamol
  - b) Adrenaline
  - c) Isoprenaline
  - d) Ephedrine
- 16) The  $\beta$ -adrenergic blocker which decreases heart rate, force of contraction and prolongs systole by retarding conduction is -----
  - a) Propranolol
  - b) Sotalol
  - c) Timolol
  - d) None of these
- 17) Pharmacological action of d-Tubocurarine involves histamine release which produces -----
  - a) Flushing
  - b) Bronchospasm
  - c) Increased respiratory secretion
  - d) All of the above
- 18) Which one of the following local anaesthetic is used for conduction block?
  - a) Lidocaine
  - b) Bupivacaine
  - c) Prilocaine
  - d) both A & B
- 19) When one drug decreases or abolishes the action of another, this action is said to be ---
  - a) Synergism
  - b) Antagonism
  - c) Drug specificity
  - d) Drug potency
- 20) The use of genetic information to guide the choice of drug and dose on individual basis is called as -----
  - a) Pharmacogenetics
  - b) Pharmacogenomics
  - c) Tachyphylaxis
  - d) Cross tolerance

**2.** Solve **any two** questions. **20**

- i) What is a drug bioavailability? Explain the factors affecting it with suitable examples.
- ii) Enumerate local anaesthetics. Explain the mechanism of action and adverse effects of lignocaine.
- iii) Classify antiepileptic drugs. Explain the mechanism of action and uses of carbamazepine.

**3.** Solve **any seven** questions. **35**

- i) Write the synthesis, storage and release of adrenaline.
- ii) Write the drug therapy on myasthenia gravis.
- iii) Define drug distribution and write its factors that influence it.
- iv) Write a note on types of drug action.
- v) Write advantages and disadvantages of intramuscular route of administration
- vi) Write in brief about drug excretion.
- vii) What is sedative? Give two examples.
- viii) Explain briefly on Disulphiram.
- ix) What is the use of carbidopa and levodopa?

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