



- x) Parasympathomimetic agents use in
- Glaucoma
  - To reverse the effect of mydriatics
  - To prevent formation of adhesions between iris and lens
  - All of above
- xi) Atropine is highly selective for
- M1 receptor subtype
  - M2 receptor subtype
  - M3 receptor subtype
  - All of the above
- xii)  $\alpha_2$  receptor is located at
- Prejunctionally
  - Postjunctionally
  - Extrajunctionally
  - All of the above
- xiii) Noradrenaline is selective action on which of the following receptors.
- $\alpha_1 + \alpha_2 + \beta_1 + \beta_2$  and  $\beta_3$
  - $\alpha_1 + \alpha_2 + \beta_1 + \beta_2$  and weak  $\beta_3$
  - $\alpha_1 + \alpha_2 + \beta_1 + \beta_3$  but no  $\beta_2$
  - $\beta_1 + \beta_2 + \beta_3$  but no  $\alpha$
- xiv) Beta adrenoreceptor subtypes is contained in all the following tissues EXCEPT
- Bronchial muscles
  - Heart
  - Pupillary dilator muscle
  - Fat cells
- xv) Indicate the irreversible Alfa receptor antagonist
- Tolazoline
  - Labetalol
  - Prazosin
  - Phenoxybenzamine
- xvi) Amide linked local anesthetic agent is
- Cocaine
  - Lidocaine
  - Tetracaine
  - Benzocaine
- xvii) A good local anesthetic agent shouldn't cause
- Local irritation and tissue damage
  - Systemic toxicity
  - Fast onset and long duration of action
  - Vasodilatation
- xviii) Diazepam is
- GABA agonist
  - GABA antagonist
  - Glycine Antagonist
  - Adrenaline blocker
- xix) The state of "general anesthesia" usually includes
- Analgesia
  - Loss of consciousness, inhibition of sensory and autonomic reflexes
  - Amnesia
  - All of the above
- xx) Indicate the anesthetic, which is used intravenously
- Propofol
  - Halothane
  - Desflurane
  - Nitrous oxide

2. Solve **any seven**.

7x5=  
35

- i) Discuss in detail about source of drugs.
- ii) Define distribution and redistribution. Explain the factors that influence it.
- iii) Write about zero-order kinetics and importance of half life.
- iv) Explain the dose-response relationship with its clinical importance
- v) What is adverse drug reaction? Give its type
- vi) Write a note on Pharmacovigilance.
- vii) Discuss the various phases of clinical trials.
- viii) Write a short note on co-transmitter.
- ix) Describe in brief about pilocarpine.

3. Solve **any two**.

2x10  
=20

- i) Classify  $\alpha$  blockers. Explain the mechanism action, therapeutic uses and adverse effect of phenoxybenzamine.
- ii) Classify the skeletal – muscle relaxant with suitable examples. Explain the mechanism of action, therapeutic uses and the adverse effect of d-TTC.
- iii) Classify antipsychotic drugs. Give its pharmacological action, adverse effect and uses of chlorpromazine.

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