



- Notes :
1. Diagrams and Chemical equation should be given wherever necessary.
 2. Discuss the reaction, mechanism wherever necessary.
 3. All questions are compulsory.

- 1.** Multiple choice questions. **1x20**
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- i) What sort of receptor is the nicotinic receptor?
 - a) G protein coupled receptor
 - b) Kinase linked receptor
 - c) Intracellular receptor
 - d) Ion channel type receptor
 - ii) Which of the following is a natural chemical messenger for the adrenergic receptor?
 - a) Acetylcholine
 - b) Dopamine
 - c) Serotonin
 - d) Noradrenalin
 - iii) Who is the founder of modern medicine?
 - a) Hippocrates
 - b) Clark
 - c) Charak
 - d) Henry's
 - iv) A molecule having 3 chiral center carbon it have ----- .
 - a) 4 sets of diastereomers
 - b) 9 set of enantiomers
 - c) 6 sets of monomers
 - d) 9 sets of stereoisomers
 - v) Which of the following is not a bivalent?
 - a) CO
 - b) CS
 - c) CC
 - d) SH
 - vi) Which of the following is not a phase II metabolic reaction?
 - a) Conjugation to alcohols
 - b) Glucuronidation
 - c) Reduction of Ketones
 - d) Methylation
 - vii) Which of the following is not a bronchodilator?
 - a) Terbutaline
 - b) Dobutamine
 - c) Adrenaline
 - d) Isoprenaline
 - viii) Neostigmine is synthesized from.
 - a) 3-dimethyl aminophenone
 - b) 3- dimethyl aminophenol
 - c) 3-dimethyl amino 1-methylhydrazine
 - d) None of the above
 - ix) Which of the following NSAID's is a selective COX-2 inhibitor?
 - a) Diclofenac
 - b) Indomethacin
 - c) Celecoxib
 - d) Piroxicam
 - x) Which of the following opioid analgesics is a strong mu receptor agonist?
 - a) Buprenorphine
 - b) Pentazocine
 - c) Naloxone
 - d) Morphine
 - xi) How much carbon chains are essential for activity of propranolol?
 - a) 1 carbon chain
 - b) 2 carbon chain
 - c) 3 Carbon chain
 - d) 4 carbon chain

