

B.Pharm. CBCS Pattern Semester-IV  
**BP 401T - Pharmaceutical Organic Chemistry-III**

P. Pages : 2

Time : Three Hours



GUG/W/23/11990

Max. Marks : 75

- 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 choices questions. **20x1**  
**=20**
- i) Isomers which are different in their spatial arrangement are.
    - a) Optical isomer
    - b) Enantiomers
    - c) Diastereomers
    - d) Stereo isomers
  - ii) Isomers which rotate plane polarized light are optically inactive.
    - a) True
    - b) False
  - iii) Meso compounds have plane of symmetry.
    - a) True
    - b) False
  - iv) Racemic mixtures are optically inactive.
    - a) True
    - b) False
  - v) D and L represents -----.
    - a) Absolute configuration
    - b) Relative configuration
    - c) Both
    - d) None
  - vi) Resolution of racemic mixture can be carried out by ----- methods.
    - a) Chemical
    - b) Biochemical
    - c) Physical
    - d) All of these
  - vii) Isomers which are non-superimposable mirror images of each other are enantiomers.
    - a) True
    - b) False
  - viii) Molecules which have elements of symmetry are optically active.
    - a) True
    - b) False
  - ix) R represent ----- absolute configuration.
    - a) Clockwise
    - b) Anti-clockwise
    - c) Both
    - d) None of these
  - x) Diastereomers are not mirror images of each other.
    - a) True
    - b) False
  - xi) The hormone cortisone contain the steroid core as.
    - a) Estrane
    - b) Androstane
    - c) Cholestane
    - d) Pregnane
  - xii) Reductive amination of pyruvic acid, using ammonia and NaBH<sub>4</sub>, gives which of the following amino acid.
    - a) Glycine
    - b) Valine
    - c) Alanine
    - d) Proline

