

Total No. of Questions : 6]

SEAT No. :

P1980

[5145]-304

[Total No. of Pages : 3

S.Y. B.Pharmacy

PHARMACEUTICAL ORGANIC CHEMISTRY - III
(2013 Pattern) (Semester - III) (Theory)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

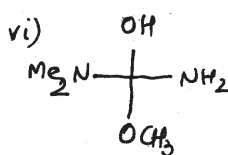
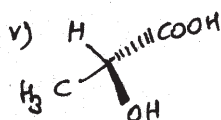
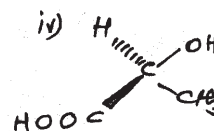
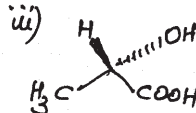
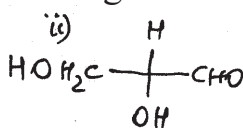
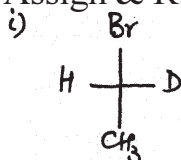
- 1) All questions are compulsory.
- 2) Answers to the two sections to be written in separate answer books.
- 3) Figures in right indicate full marks.
- 4) Neat diagrams to be drawn if necessary.

SECTION - I

Q1) What do you mean by racemic modification? Explain with suitable examples the various methods used for the racemic modification in details.. [10]

OR

a) Assign & R.& S. configuration for the following [6]



b) What are enantiomers & diastereomers, explain with suitable examples.[4]

Q2) Answer any five. [15]

- a) Write in brief on peptide linkage and its geometry. Classify aminoacids.
- b) Explain in brief: Atropisomerism.
- c) Why chair conformation is more stable than boat conformation? Explain.

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- d) Enumerate few advantages of Z/E nomenclature over cis/ trans nomenclature.
- e) Enlist the priority rules for assigning R/S configuration.
- f) Optical isomerism is not exhibited by meso compounds, why?
- g) Discuss the D&L method of nomenclature and its limitations.

Q3) Short Notes Any Two.

[10]

- a) Syn. & Anti addition.
- b) Conformation of cyclohexane.
- c) Newman & sawhorse projections.
- d) Conformation of Ethane.

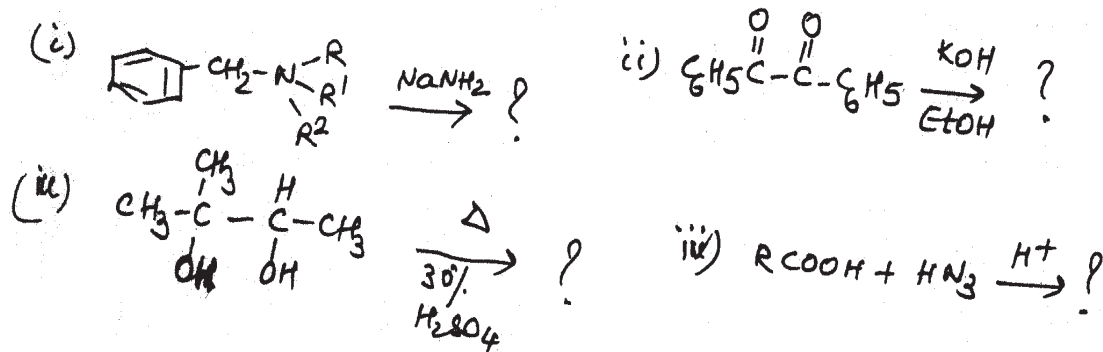
SECTION - II

Q4) Define molecular rearrangement reactions and classify them. Explain in brief any 2 reactions with mechanisms at electron deficient oxygen. [10]

OR

Produce the product/s

[10]



Q5) Answer Any 5

[15]

- a) Explain electrophilic aromatic substitution in naphthalene.
- b) Discuss Howarth Synthesis of polycyclic aromatic compounds.
- c) How is anthracene prepared from benzene?
- d) Give a short note on wolf rearrangement.
- e) Why does curtives rearrangement lead to urea derivatives as side products.
- f) How shall you prepare 9, 10- dehydrophenanthrene.
- g) Discuss wittig rearrangement.

Q6) Write short notes (ANY TWO)

[10]

- a) Hoffman Rearrangement.
- b) Claisen Rearrangement.
- c) Lossen Rearrangement.
- d) Stevens rearrangement

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