

Seat No.	
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B.Sc. (Part-I) (Semester-I) (CBCS) Examination, November - 2019
CHEMISTRY

Organic Chemistry (Paper - II) (DSC - 4 A)

Sub. Code : 71605

Day and Date : Wednesday, 13 - 11 - 2019

Total Marks : 50

Time : 12.00 noon to 2.00 p.m.

- Instructions :
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Draw neat diagrams and give equations wherever necessary.

Q1) Choose the correct alternative for each of the following and rewrite the sentence.

[10]

- a) The homolytic bond fission is favored by _____ .
- i) UV light
 - ii) Heat
 - iii) Polar solvent
 - iv) Both i and ii
- b) The stability of carbocation is affected by _____ .
- i) Inductive effect
 - ii) Hyperconjugation
 - iii) Resonance effect
 - iv) All of these
- c) Inductive effect is denoted as _____ .
- i) M
 - ii) E
 - iii) I
 - iv) All of these
- d) As the number of chiral center increases the pairs of enantiomers.
- i) Increases
 - ii) Decreases
 - iii) Remains same
 - iv) None of the above
- e) Equimolar mixture of pair of enantiomer of an optical active compound is called as _____ .
- i) Diastereoisomers
 - ii) Conformer
 - iii) Enantiomer
 - iv) Racemic modification

P.T.O.

Q3) Solve any four of following.

- What are dienes? How they are classified?
- What are cycloalkenes? Give any two methods of their preparation.
- Define the inductive and electromeric effect.
- What are free radicals? Give any two methods of its generation.
- Explain aromaticity of naphthalene by Huckel's rule.
- Assign R-S and E-Z configuration of following compounds.

