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# B.Sc. Biotechnology 1st Semester

## ORGANIC CHEMISTRY—A

#### Paper—BT-4

Time Allowedmay be attempted question Attempt FIVE questions selecting at least ONE Three Hours from each section. Maximum section. The fifth question Marks 40

#### SECTION

- stability form of Write Newman yclohexane and predict their relative ons for Chair and Boat
- (6) Discuss the stability of tropylium cation w
- 0 free radical? Why allyl free radical is more stable than alkyl
- 2 (a) stabilities conformations of n-butane and discuss their relative Draw potential energy diagram for various

(Contd.)

9 order of their stability Arrange the following carbocations and justify. in increasing

w Assign alkenes E/Z configurations to the following

9 mechanism Complete the fo action and give a suitable

0 cis-isomer, in the presence of a base more readily than the Trans 2-bromo-2-butene undergoes explain. elimination

(a) Assign alkenes H configurations to the following

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mechanism: Complete the following reaction and give a suitable

$$H_3C$$
 $C$ 
 $CH_3$ 
 $H_3SO_4$ 
 $H_3C$ 
 $CH_3$ 

0 mechanism Complete the following reaction with suitable

S (a) Assign compour ighration to the following

HOOC

H

6 and Diastereomers. Enlist various differences between Enantiomers

564(2118)/DAG-7567

C

(Contd.)

6 (a) compounds: Assign R/S configuration to the following

0 activity. Explain. Dissymmetry is an important condition for optical

### SECTION-D

- (a) Giving configuration" reaction a suitable example, justify the fact that proceeds with inversion of
- 0 substitution reaction order Arrange the following of their reacti spounds justify. towards in increasing nucleophilic

(a) S<sub>N</sub>2 reaction. Enlist the various differences between S<sub>N</sub>1 and

00

9 suitable mechanism Complete the following reaction and provide