

UG 2nd Semester Examination 2020

CHEMISTRY

[HONOURS]

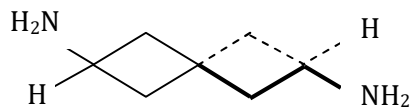
Course Code: CEMHT-4 (Organic)

Full Marks: 10

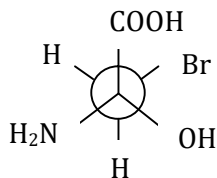
Answer any *five* questions from the following:

[2x5=10]

1. Find out the absolute configuration (R, S) of the following compound based on axial chirality:



2. Define 'Buttressing effect' with an example.
3. Designate the following Newman formula as sp, sc, ac or ap with proper sign:



4. Define proton sponges with an example.
5. 2-Ethyl-3-methylcyclobuta-2-en-1-one exists exclusively in keto form. Explain.
6. What is primary kinetic isotope effect? Explain with an example.
7. Why the substitution reaction of EtSCH₂CH₂Cl in ethanol is faster than EtOCH₂CH₂Cl? Explain.