
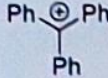
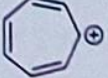
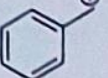

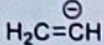


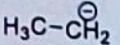
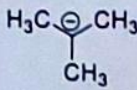


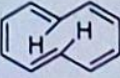




| | | | | |
|---|--|---------|-----|-----|
| 4 | <p>a) Arrange the following carbocation's (I-V) in the order of increasing stability and justify your answer.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> I</div> <div style="text-align: center;"> II</div> <div style="text-align: center;"> III</div> <div style="text-align: center;"> IV</div> <div style="text-align: center;"> V</div> </div> <p>b) Arrange the following carbanions (I-V) in the order of increasing stability and justify your answer.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> I</div> <div style="text-align: center;"> II</div> <div style="text-align: center;"> III</div> <div style="text-align: center;"> IV</div> <div style="text-align: center;"> V</div> </div> | (5 + 5) | CO1 | BL3 |
| 5 | <p>State the Huckel's rule of aromaticity. Classify the molecules (I-V) as aromatic, non-aromatic, or anti-aromatic compounds with explanation. Write its stability order.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> I</div> <div style="text-align: center;"> III</div> <div style="text-align: center;"> III</div> <div style="text-align: center;"> IV</div> <div style="text-align: center;"> V</div> </div> | 10 | CO1 | BL2 |