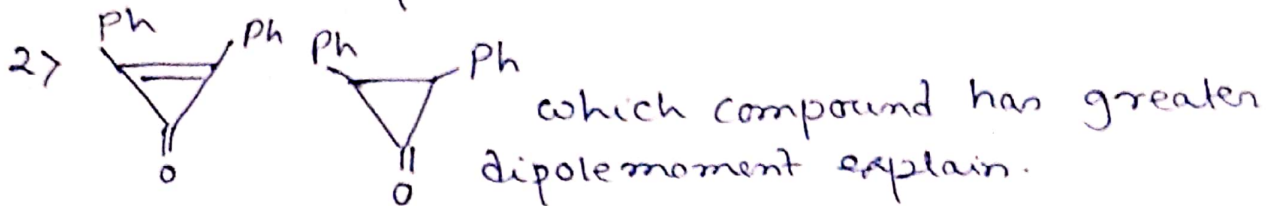


Barasat College
 4 sem Chemistry Hons
 Internal assessment Exam .

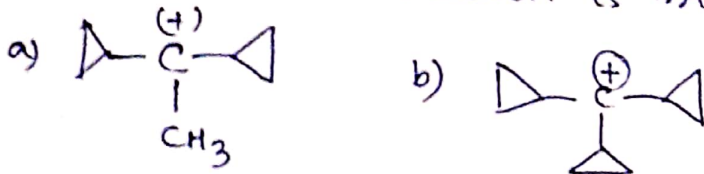
Theory + Practical 16+8 = 24 mark
 CEMA COROIT Time - 1hr 15 min .



Answer Any 8 questions 8x2 = 16

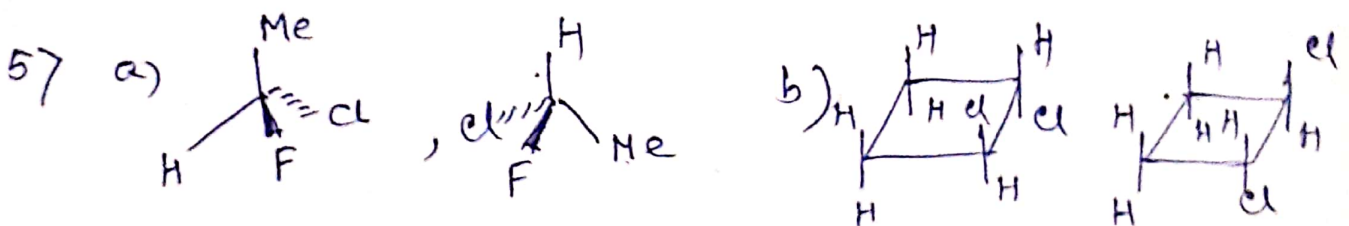
1) Azulene has an unexpectedly high dipole moment explain.



3) which carbocation is more stable and why

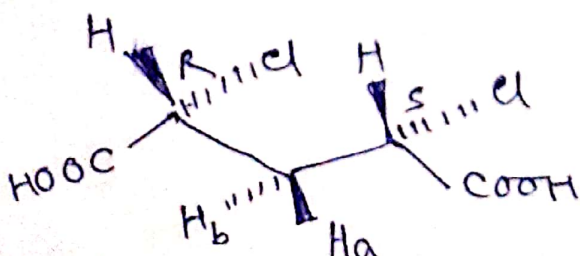


4) i)  ii)  explain whether the species are aromatic or antiaromatic.



label the pairs of molecule as homomers, enantiomers. or diastereoisomers.

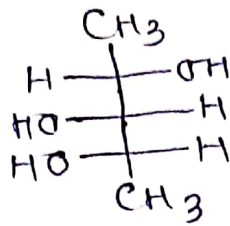
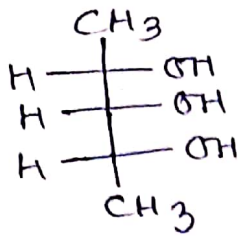
6) Designate pro-r and pro-s hydrogen atoms marked as Ha and Hb in the following compound.



P.T. 0

7. Draw the structure of (2E, 4Z)-2,4-Hexadienoic acid

8) which one is active compound give reason

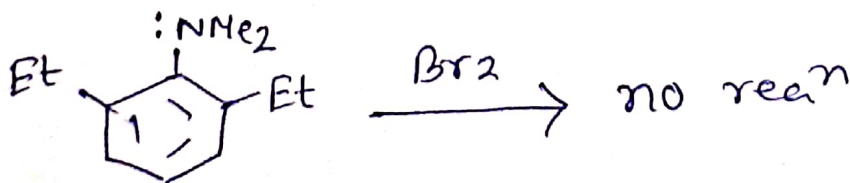
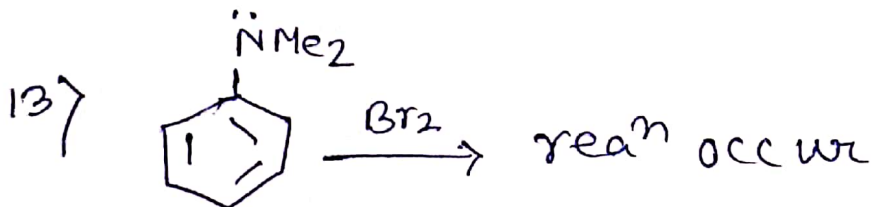


9) Draw the Fischer, Newman and Sawhorse projection of meso 2,3-dibromobutane.

10) State the hybridization of singlet carbene and Draw the orbital picture.

11) Explain with suitable example HOMO LUMO and SOMO.

12) Calculate the DBE of Benzene.



Explain.

14) Write a short note on hyperconjugation.

Practical

Answer any 4 questions. $4 \times 2 = 8$

- 1) Name two water immiscible liquid given in your Organic practical syllabus.
- 2) Identify the compound A present in your syllabus.
Compound A give effervescence of CO_2 when mixed it with NaHCO_3 but does not respond with Ammoniacal AgNO_3 soln.
- 3) Write down the identification test of c1ccccc1[N+](=O)[O-]
- 4) Write the structure of solid water soluble compound present in your organic practical syllabus that gives the FeCl_3 test.
- 5) Give the structure of salicylic acid and Citric acid.
- 6) Give the reaction of urea with NH_3 .
- 7) Describe the test of glucose.

—ଆତ୍ମୀୟ ବିଭୂତ୍ୟ ନାମ — College - roll ନିମ୍ନରେ, - Subject code
ଅନୁସାରେ, Theory + Practical ପାଠ୍ୟପୁସ୍ତକ ନିମ୍ନରେ, ଡାକ୍ତର pdf
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