

Student name :-

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Al-Azhar University
Chemistry Department

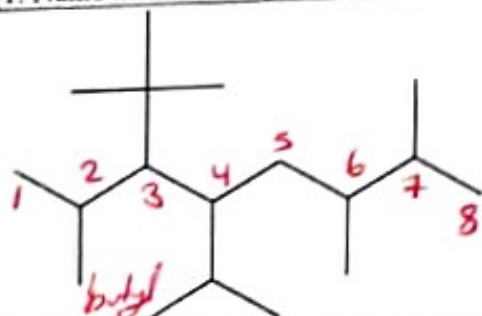
Org. Chem.

Midterm exam
1st semester 22/23

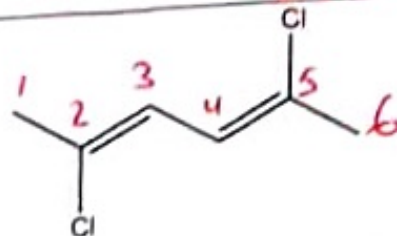
D. Hussein Solution

Q1. Name the following compounds:

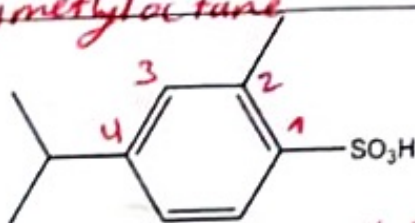
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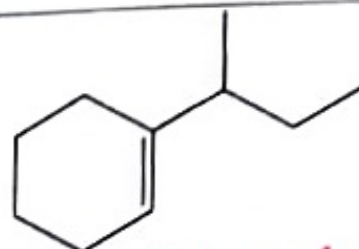
3-tert-butyl-4-isopropyl-2,6,7-trimethyloctane



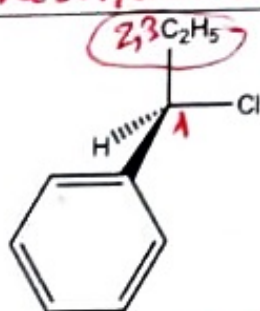
2,5-dichloro-2,4-hexadiene



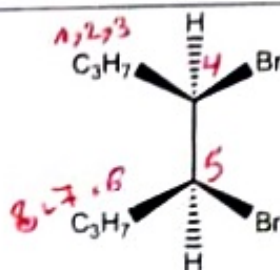
4-isopropyl-2-methylbenzenesulfonic acid



1-sec-butyl-1-cyclohexene



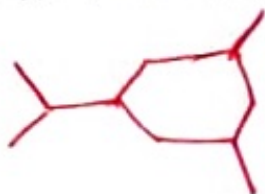
(R)-1-chloro-1-phenylpropane



(4R,5S)-4,5-dibromooctane

Q2. Draw the structure of the following compounds:

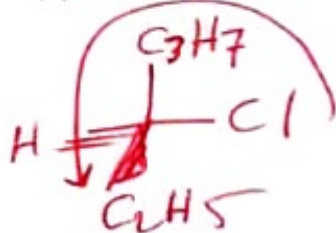
1-isopropyl-3,5-dimethylcyclohexane



1,4-dimethyl-1,3-cyclopentadiene



(S)-3-chlorohexane



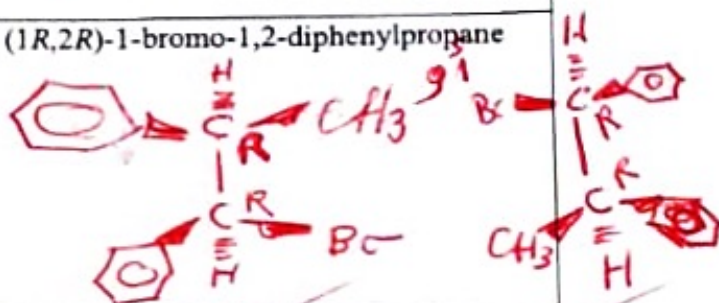
1,4-diisobutylbenzene



3-ethyl-2,4,5-trimethylhexane

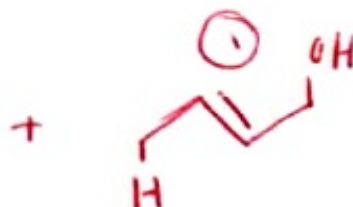
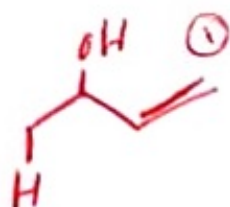
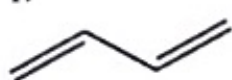


(1R,2R)-1-bromo-1,2-diphenylpropane

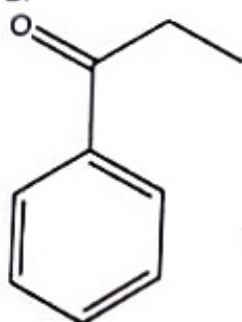


Q3. Complete the following reactions:

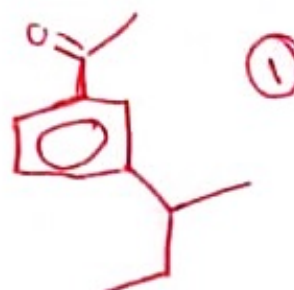
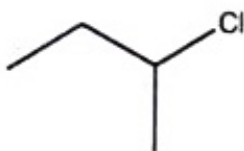
1.

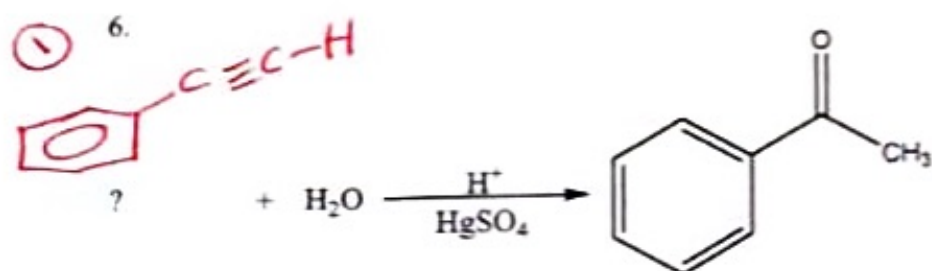


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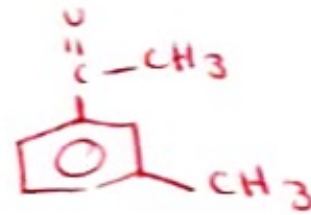
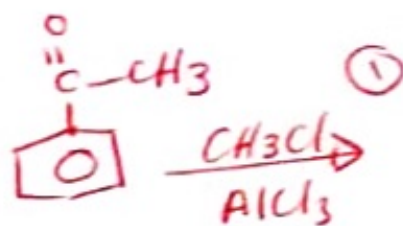
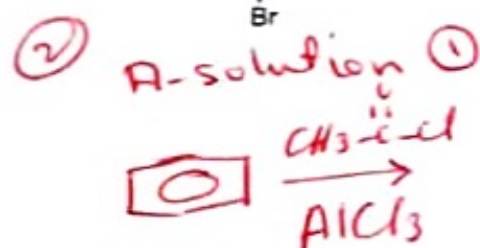
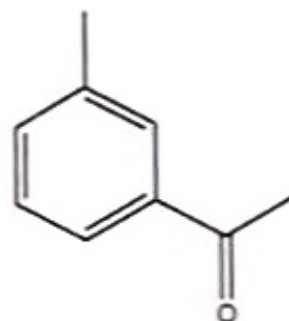
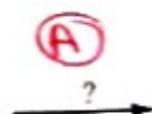
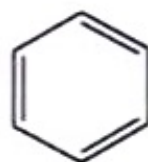
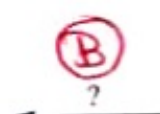
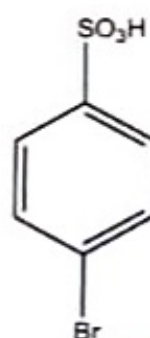


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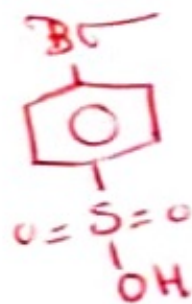
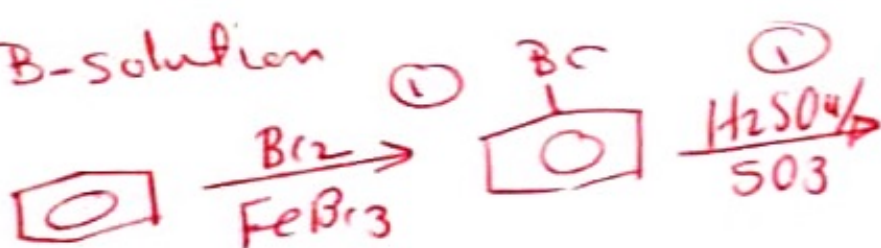


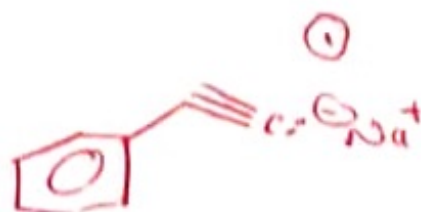
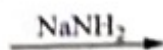


④ Q4. Describe how each of the following compounds can be prepared starting from benzene:

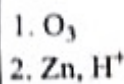
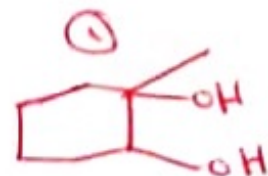
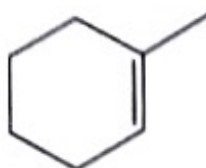
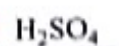
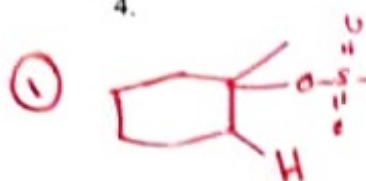


② B-solution

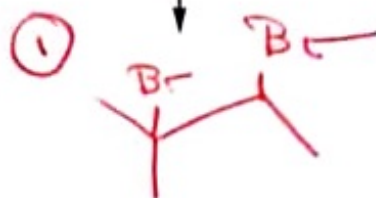
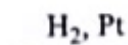
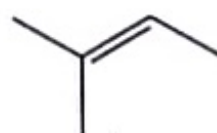
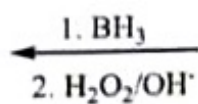
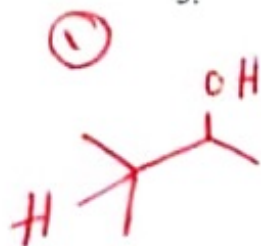




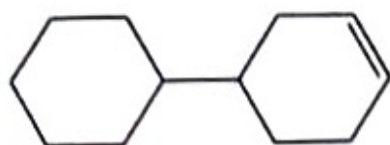
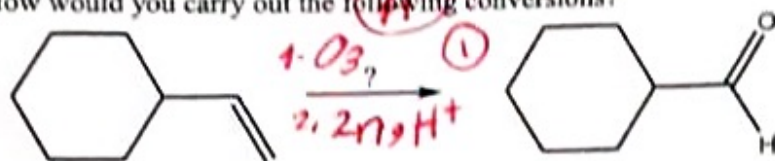
4.



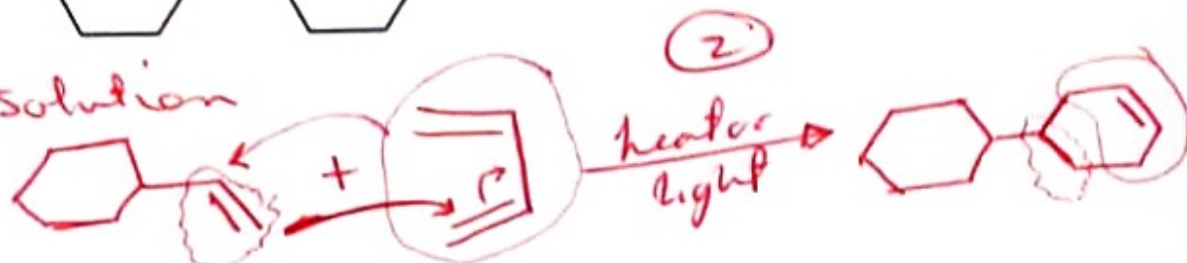
5.



5. How would you carry out the following conversions?



B-solution



Good luck
 Prof. Dr. Hussein M. Alhendawi
 MSc. Nisreen Altar