BINGHAM UNIVERSITY, KARU
DEPARTMENT OF CHEMICAL SCIENCES
CHM 103 PART A

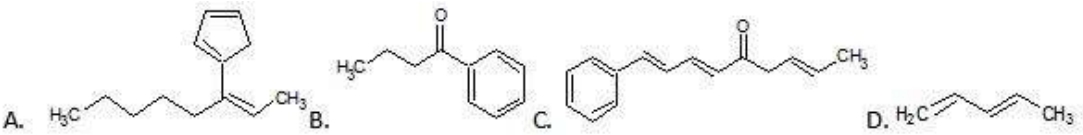
ASSIGNMENT I **DUE DATE: WEDNESDAY, FEB 17th**

Instruction: Ensure to submit in hardcopy (not online) handwritten paper to my office on or before the due date.

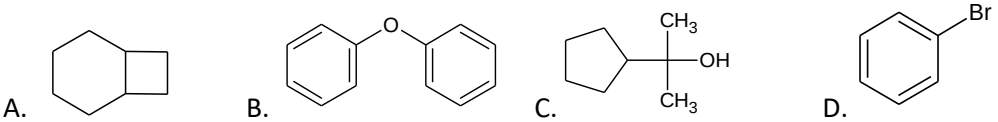
1. Which of the following compounds does NOT contain a polar covalent bond?
   A. $CH_3CH_2CH_2OH$
   B. Ozone (O_3)
   C. $CH_3CH(NH_2)CH_2CH_3$
   D. $CH_3CH_2CH_2CH_2Li$

2. Which of the bonds shown by a dash will have the weakest polarity? Explain why.
   A. H-Cl
   B. H-NH_2
   C. H-OH
   D. H-Br

3. Which of these molecules has an isolated (i.e. not conjugated) pi bond?



4. Which of these compounds would **NOT** participate in hydrogen bonding? Explain why.



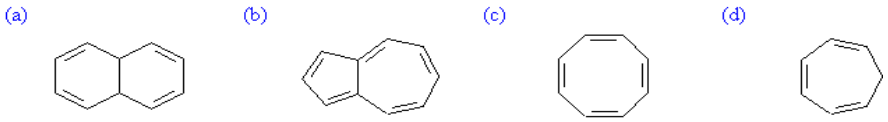
5. What is the total number of pi-bonds found in the following compound?

$CH_3-CH=C=CH-C\equiv C-H$

6. What is the total number of pi-electrons found in the following compound?

$CH_3-CH=C=CH-C\equiv C-H$

7. Which of these compounds has a "huckel's number" of pi electrons?



8. Write short notes on some Intra-molecular and Intermolecular bonds in Chemistry.