

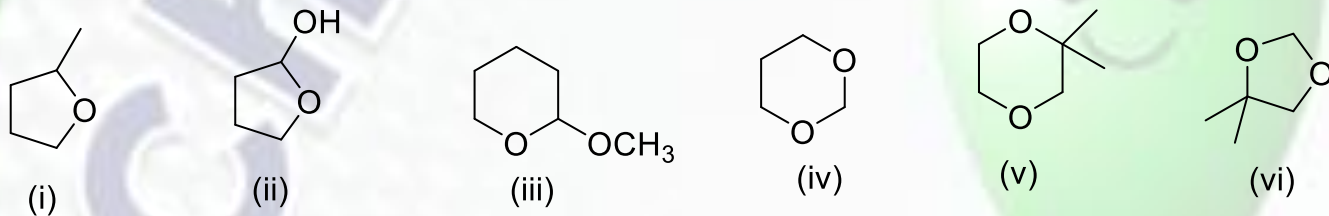
# Worksheet Organic Chemistry

## JEE/NEET

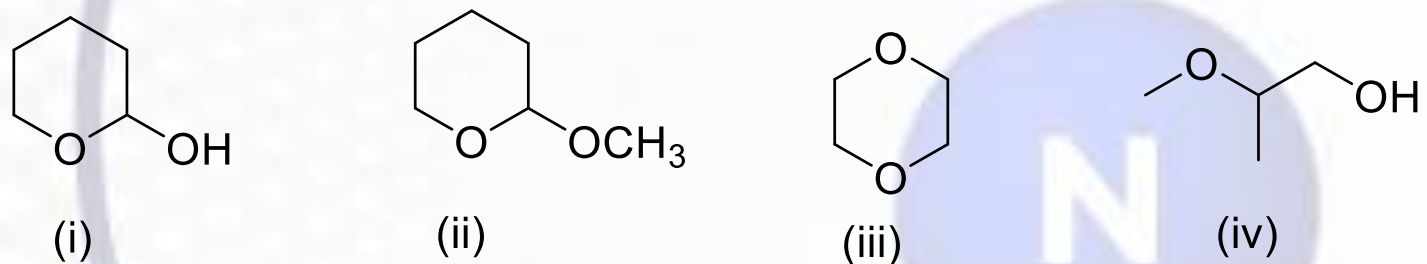
### Chemistry Affinity

Conceptual, Real world, Happy Learning

### 1. Which of the following compounds are acetals?

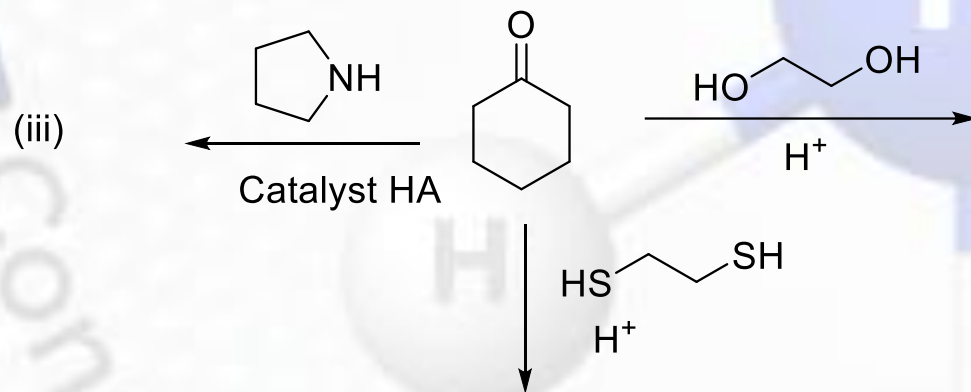
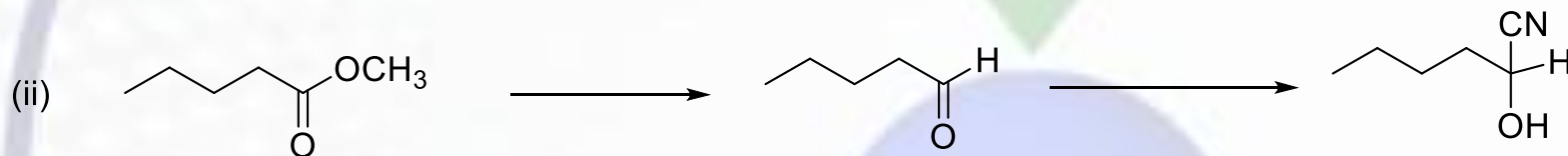
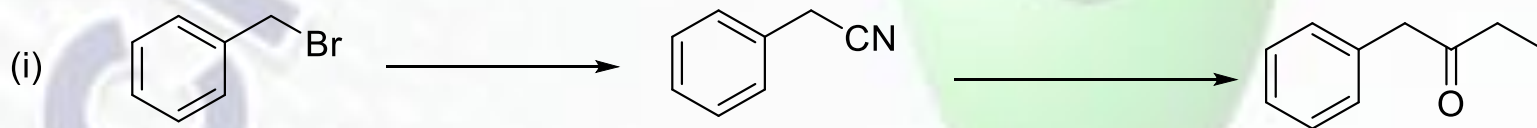


### 2. Which of the following compounds are hemiacetals?

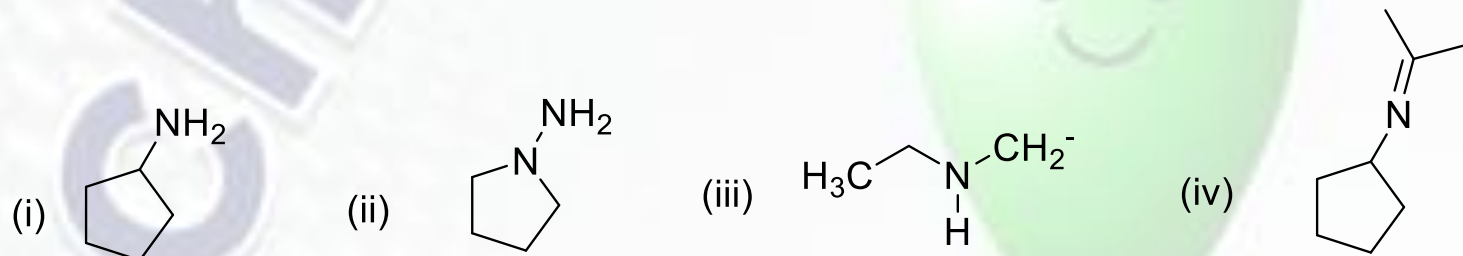


### 3. Draw the most stable tautomer of 2-pentanone in aqueous acid with proper explanation?

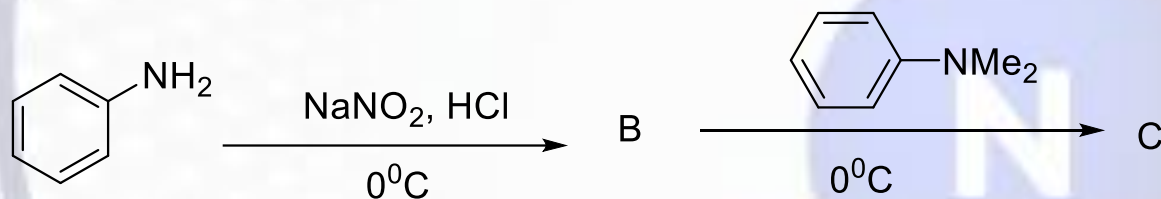
#### 4. Write down reagents and products for the following reactions



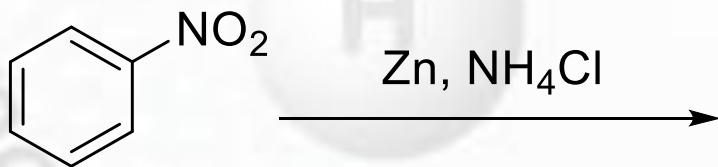
**5. Which of the following compound is Schiff base?**



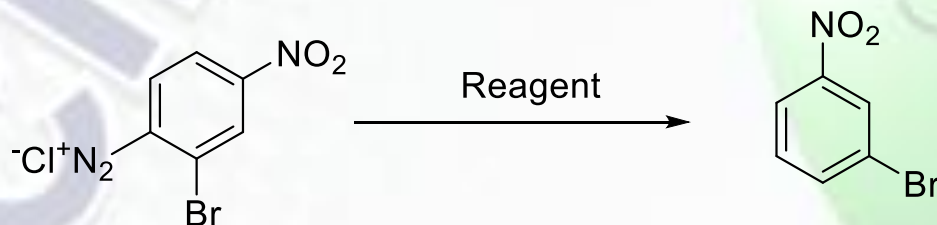
**6. In a reaction of aniline, a coloured product C is formed. Identify C.**



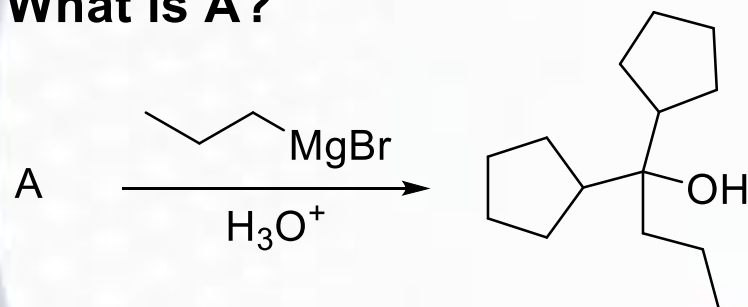
**7. What is the product obtained in the following reaction?**



**8. Write down the correct reagent for below conversion?**



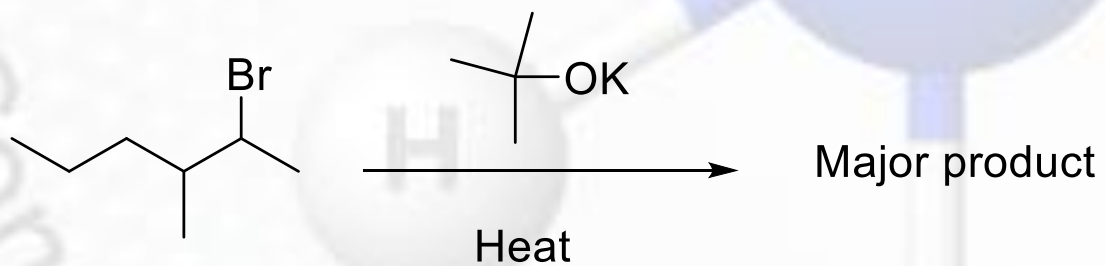
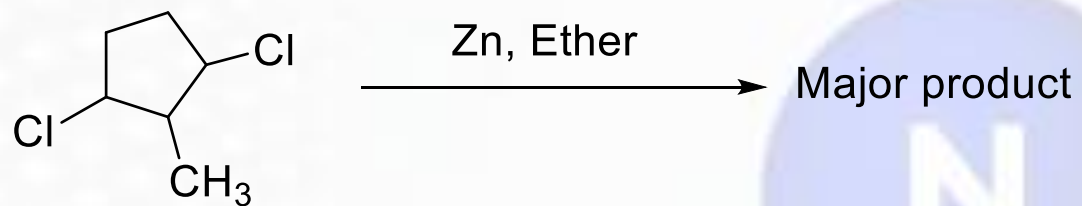
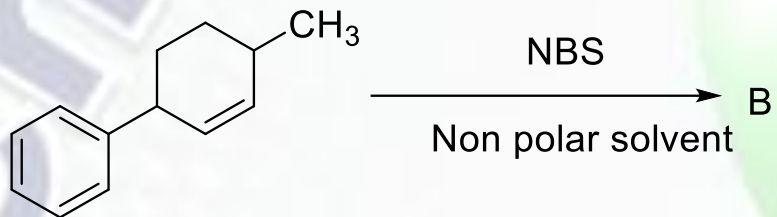
**9. What is A?**



**10. A given nitrogen containing aromatic compound A reacts with  $\text{Sn/HCl}$  followed by  $\text{HNO}_2$  give an unstable compound B. B on treatment with phenol gives a coloured compound C with molecular formula  $\text{C}_{12}\text{H}_{10}\text{N}_2\text{O}$ . What will be the structure of compound A?**



## 11. Write down the correct products for below conversions?





# All the Best