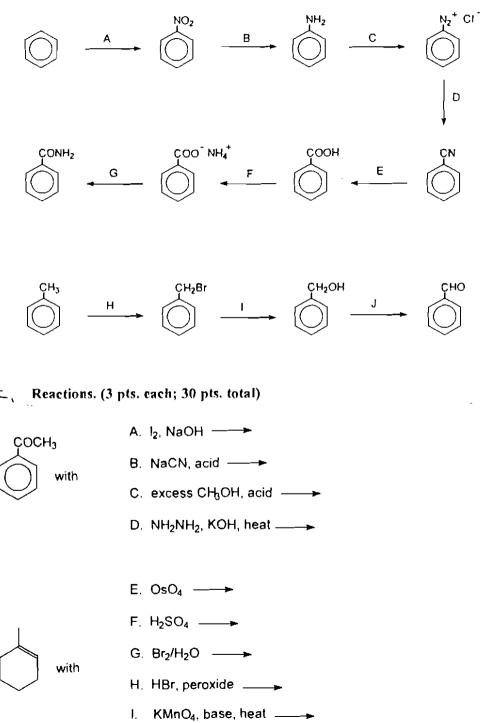
Supply the suitable reagents for the following conversion. (2 pts. each; 20 pts. total)



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- Ξ. Explain/Define the following terms:(2 pts each; 10 pts total)
 - (1) Beer's Law (2) Blind sample (3) Absorption (4) HETP
 - (5) Reversed-phase chromatography
- 10 pts) What is the purpose of a matrix modifier in atomic spectroscopy? (10 pts)
- 五、 The molar absorptivities of X and Y were measured with pure samples of each: (5 pts each; 10 pts total)

$\varepsilon (M^{-1} cm^{-1})$		
λ (nm)	X	Y
λ '=406	ε x'=720	ε y'=212
λ '=457	ε x ¹ =479	$\varepsilon y^2 = 274$

A mixture of X and Y in a 1.0 cm cell had an absorbance of Λ^1 =0.722 at 406 nm and Λ^2 =0.641 at 457 nm. Find the concentrations of X and Y in the mixture.

- τ . How do you confirm the accuracy of the analysis method? (10 pts)
- \pm Briefly compare the LLE, SPE and SPME for the extraction liquid sample. (10