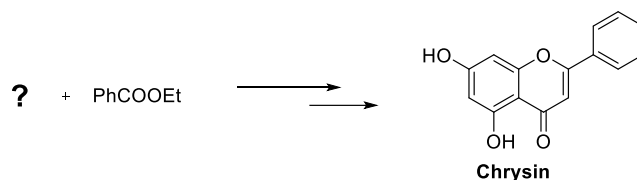
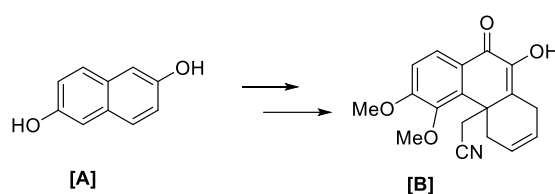


**Paper 4203 B (M.Sc. Final) Alkaloids and Polyphenols**  
**Assignment III**

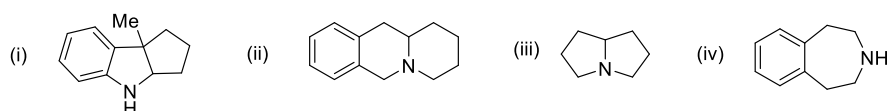
**Q.1** How you will synthesize Chrysin (5,7-dihydroxy flavones) starting from ethylbenzoate. Explain the synthesis giving suitable mechanism.



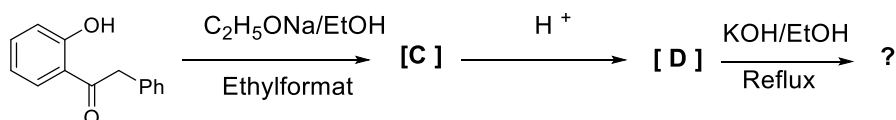
**Q.2** Explain the synthesis of compound **B** (an intermediate of morphine synthesis) starting from naphthalene-2,6-diol '**A**'.



**Q.3** In the given amines, write the repetitive methylation, followed by Hofmann elimination product/products with suitable mechanism.



**Q.4** In the given reaction; identify the product '**C**' and '**D**' with suitable mechanism; also find the hydrolysis product of B with proposing mechanism.



**Q.5** Draw the structure of product '**E**' and '**F**' in the given reaction and propose a suitable mechanism.

