

國立臺北科技大學九十八學年度碩士班招生考試

系所組別：3520 化學工程研究所乙組

第二節 有機化學 試題

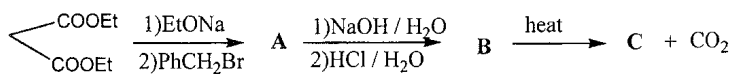
第一頁 共二頁

注意事項：

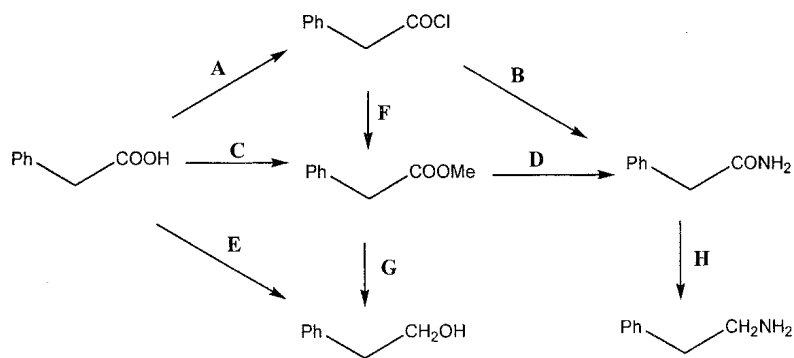
1. 本試題共三大題，配分共 100 分。
2. 請標明大題、子題編號作答，不必抄題。
3. 全部答案均須在答案卷之答案欄內作答，否則不予計分。

1) Propose reagents or compounds to finish the synthesis of following reactions.

a) 6%

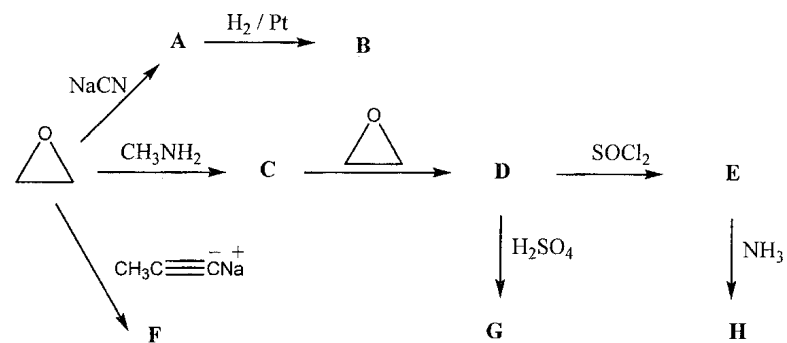


b) 16%

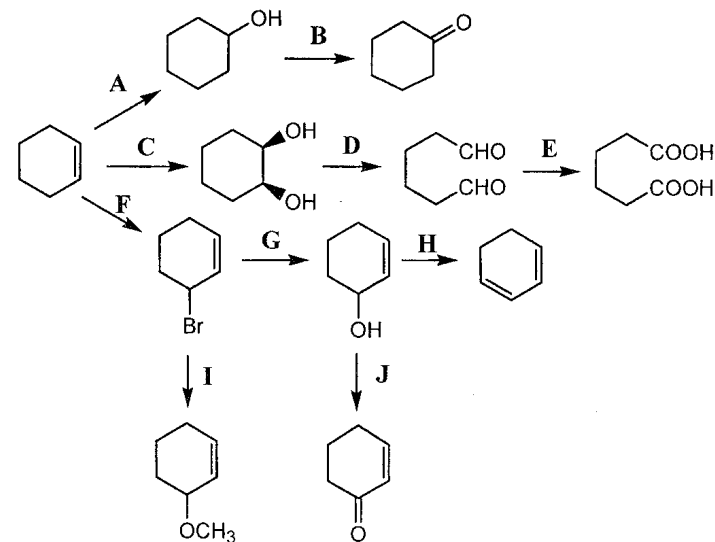


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c) 16%

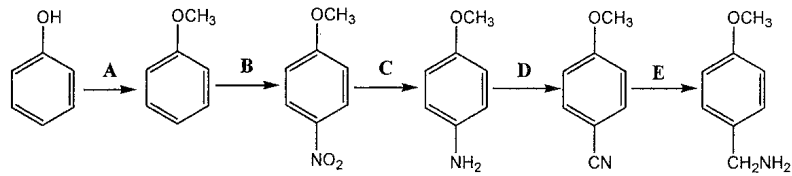


d) 20%



注意：背面尚有試題

e) 10%



3) Show the structure of the following compounds. 20% (每小題 2 分)

- a) DMSO
- b) DMF
- c) Pyridine
- d) THF
- e) PCC
- f) Styrene
- g) Vinyl chloride
- h) Allyl bromide
- i) Acetone
- j) Toluene

2) Show the name or structure of the major product of the following reactions. 12%

a) What is the name of the major product when 2,2-dimethyl-1-propanol reaction with HCl ?

3%

b) What is the name of the major product when (S)-2-octanol reaction with SOCl_2 and 3° amine ?

3%

c) What is the name of the major product when 3,3-dimethyl-2-butanol reaction with H_2SO_4 at 140-170°C ?

3%

d) What is the structure of the major product of the following reaction? 3%

