

# 淡江大學八十九學年度碩士班招生考試試題

82

系別：化學工程學系

科目：有機化學

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## Problem One (50 points)

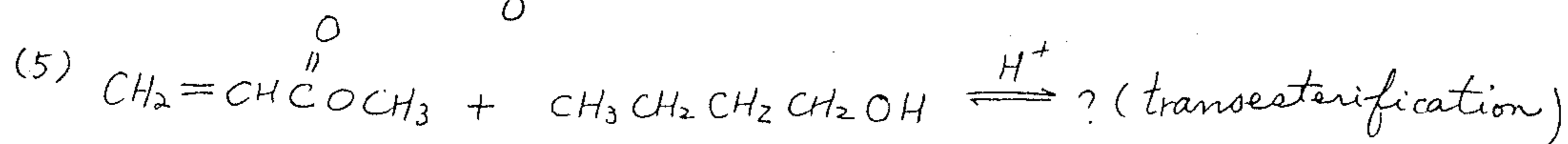
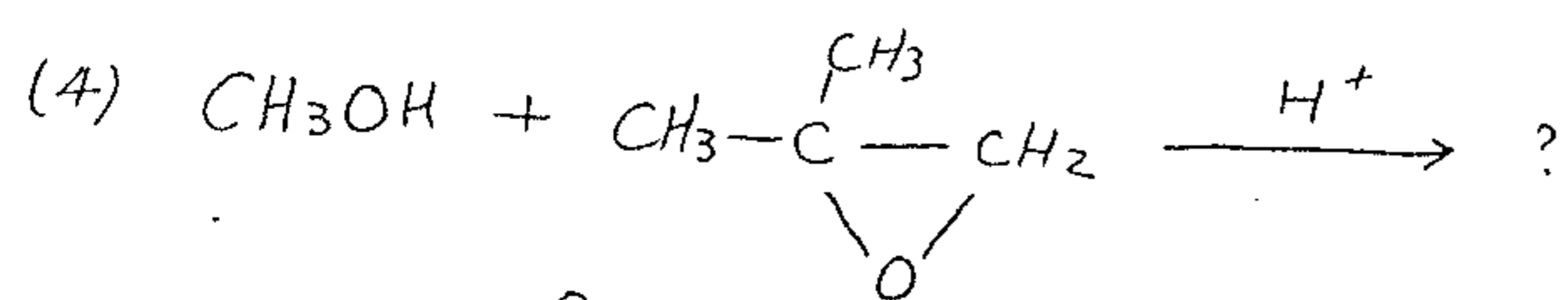
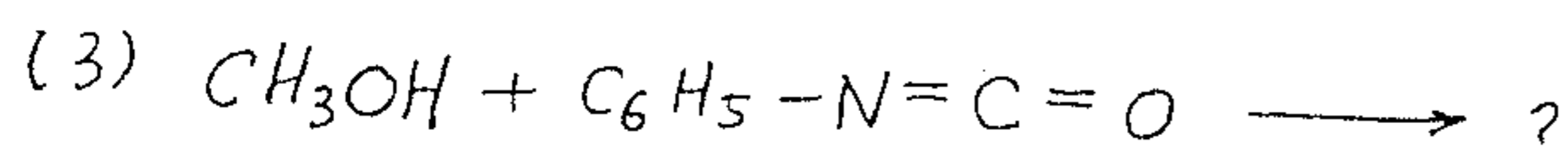
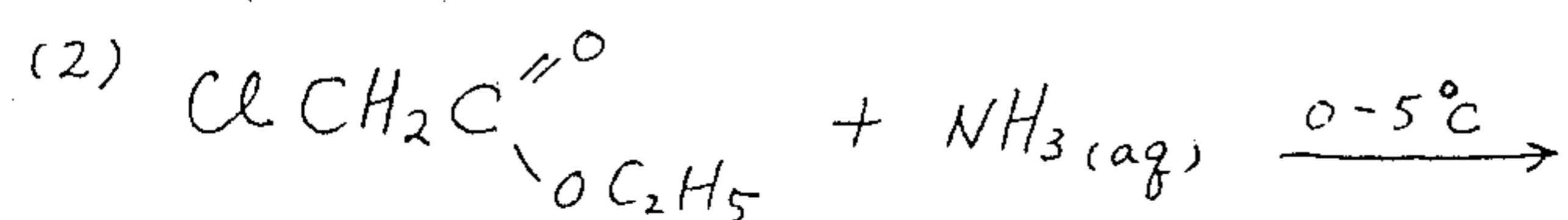
Draw the structure formula for each of the following compounds.

For example: isohexane ;  $\text{CH}_3\underset{\text{CH}_3}{\text{CH}}\text{CH}_2\text{CH}_2\text{CH}_3$

- Poly(vinyl alcohol)
- Trimethyl phosphate
- 2-Hydroxyethyl methacrylate
- Tetrahydrofuran
- Glycidyl methacrylate
- Acetic acid
- Ethyl acetate
- Glycerol
- Ethyl Methyl ketone
- Divinyl ether

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## Problem Two (25 points) : Draw structures of the products of the following reactions.



See Page 2 for Problems Three and Four

◀ 注意背面尚有試題 ▶

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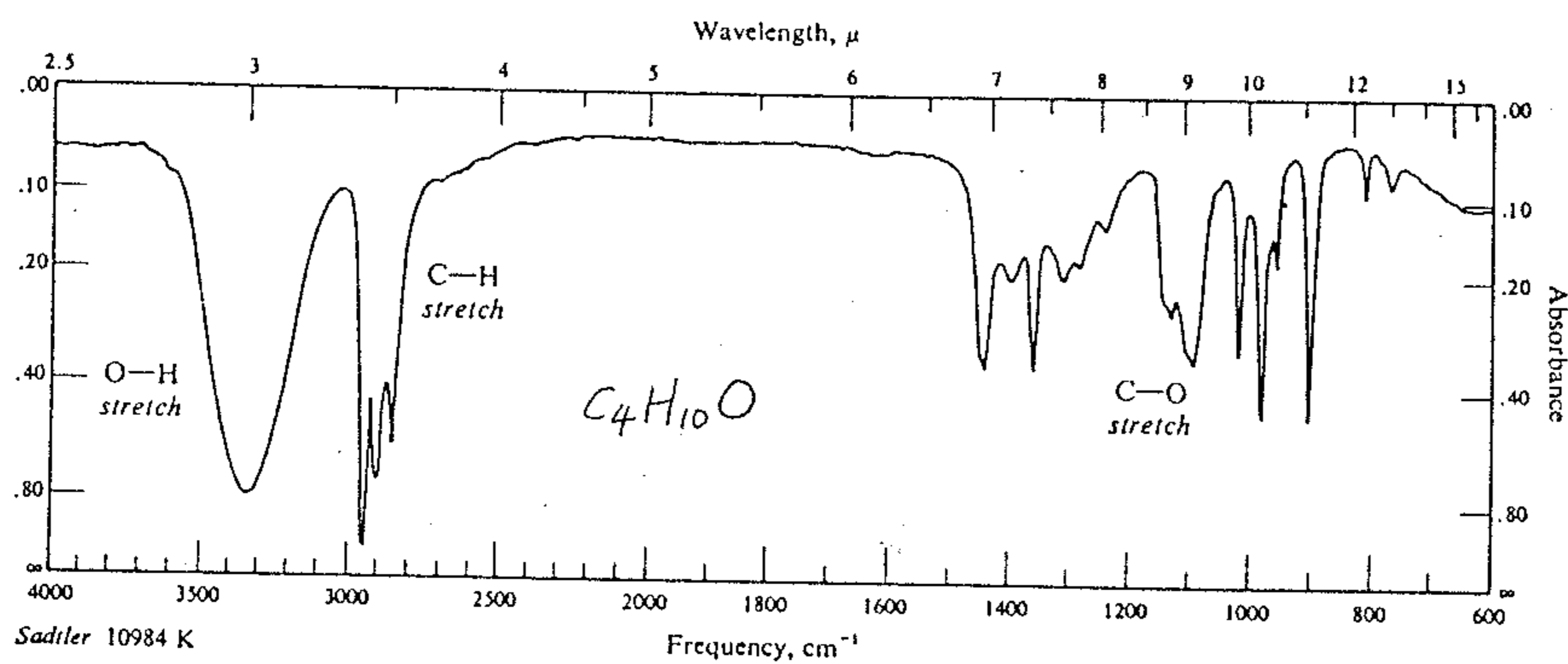
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Three (15 points)

Give a structure for the compound whose infrared spectrum is shown below.



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Four (10 points)

Construct the mechanism of the following reaction.

