

系組：化學系三年級

日期節次：7月26日第1節 09:00-10:20

科目：有機化學 (136-26)

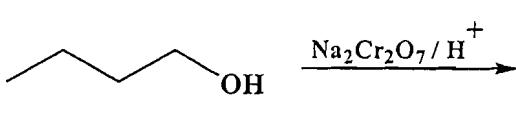
(I) Define the following terms:

- (a) *Organic Chemistry* (5%)
- (b) *Functional Groups* (5%)
- (c) *Sigma bond* and *pi bond* (5%)
- (d) *Aliphatic Compounds* and *Aromatic Compounds* (5%)
- (e) *Lewis acid* and *Lewis base* (10%)
- (f) *Ionic bond*、*BCovalent bond* and *Polar covalent bond* (10%)

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(II) Give the structures of the major organic products of the following reactions : 5 points each

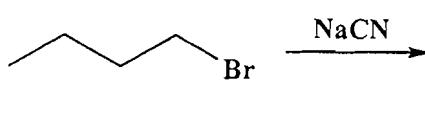
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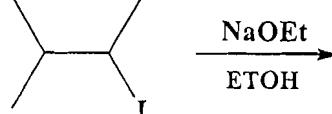
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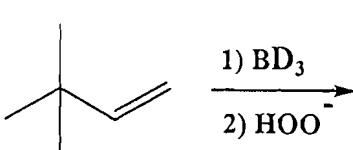
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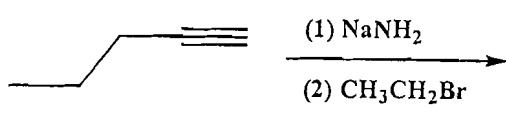
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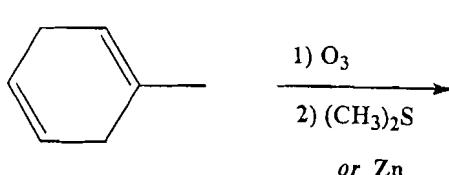
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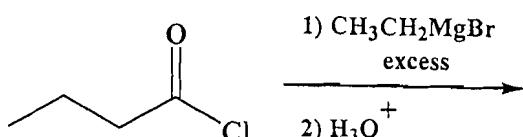
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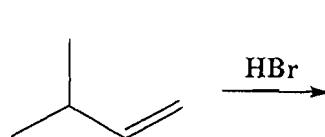
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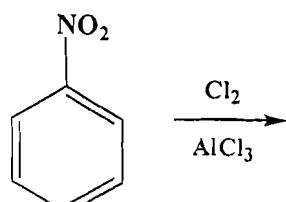
(9)



(10)



(11)



(12)

