中國文化大學 104 學年度碩士班考試入學招生考試試題

M-3-1 系所組:化學系應用化學碩士班 節次:第1節

科目:有機化學與分析化學

有機形子: Define the following terms: (5 points each)

- (1) Organic Chemistry
- (2) Hofmann vs Zaitsev Elimination Reactions
- (3) Markovnikov's rule
- (4) Aromatic Compounds, *Anti*aromatic Compounds, *Non*aromatic Compounds and Aliphatic Compounds
- (5) Lewis acid and Lewis base
- (6) Aldol Condensations
- (7) Nucleophilic Aliphatic Substitution S_N^2
- (8) Wittig reactions
- (9) Electrophilic Aromatic Substitution
- (10) Nucleophilic Aromatic Substitution

分析化學:

- 1. Please describe the difference between the AES and AAS. (10 分/題)
- 2. What is precision and accuracy? (10 分/題)
- 3. Please transfer the following transmittance to absorption (1): 0%; (2) 100% (5 分/小題)
- 4. How do you improve the performance of the GC? (10 分/題)
- 5. What are the advantages of double-beam optics over single-beam optics in IR? (10 分/題)

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