

中國文化大學 101 學年度暑假轉學招生考試

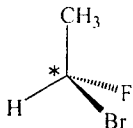
系組：化學系三年級 日期節次：7 月 24 日第 1 節 09:00-10:20

科目：有機化學

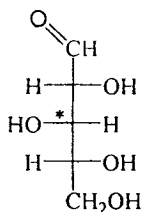
11-3-3

- 一、請寫出下列分子：(1)有幾個不對稱中心 (chiral center) ? (2)有多少種立體異構物 (stereoisomer) ? (3)有 * 標示的碳原子為 R 組態或 S 組態? (18%)

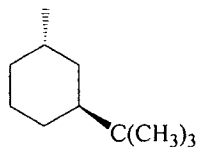
1.



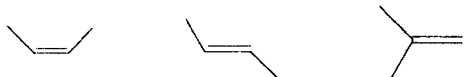
2.



- 二、請寫出下列分子位能最低之立體構形。(7%)

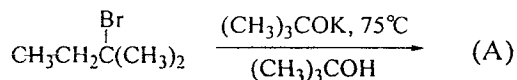


- 三、下列烯類分子請寫出(1)位能最高者、(2)位能最低者。(10%)

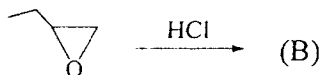


- 四、請寫出下列化學反應之主要產物。(65%)

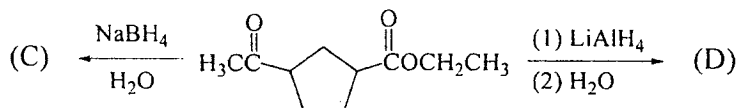
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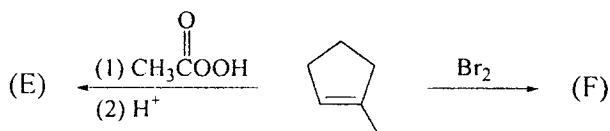
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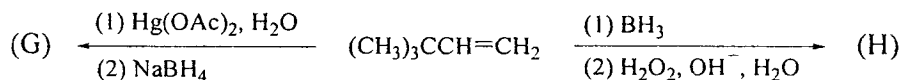
3.



4.



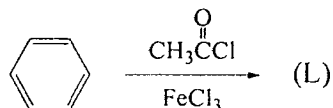
5.



6.



7.



8.

