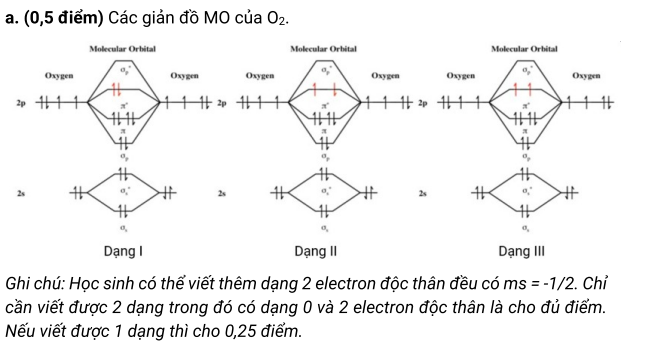
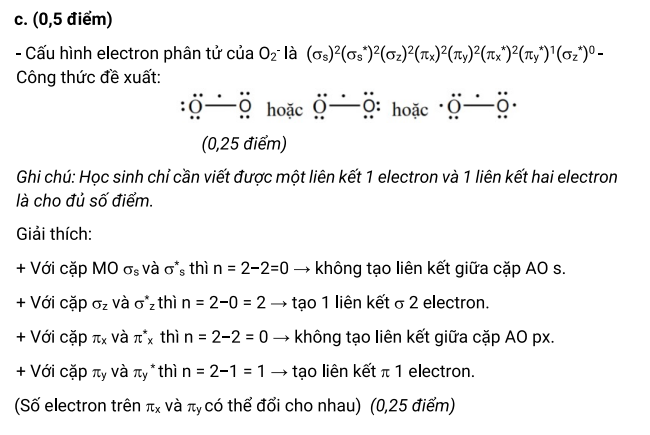
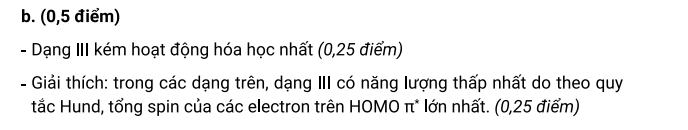
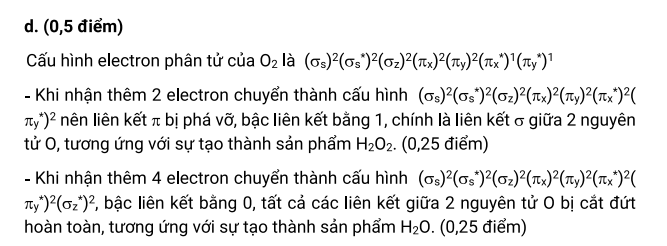
|  |  |
| --- | --- |
| **BỘ GIÁO DỤC VÀ ĐÀO TẠO** | **KỲ THI CHỌN HỌC SINH GIỎI QUỐC GIA THPT NĂM 2019**  **HƯỚNG DẪN CHẤM ĐỀ THI CHÍNH THỨC**  Môn: **HOÁ HỌC**  Ngày thi thứ nhất: **13/01/2019**  Ngày thi thứ hai: **14/01/2019** |

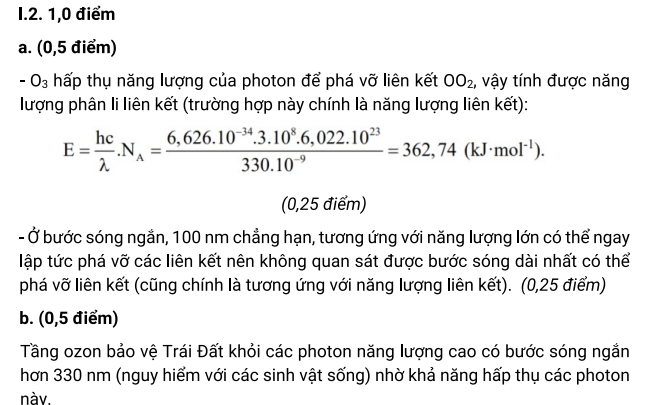
**Câu I (3 điểm)**

**I.1**

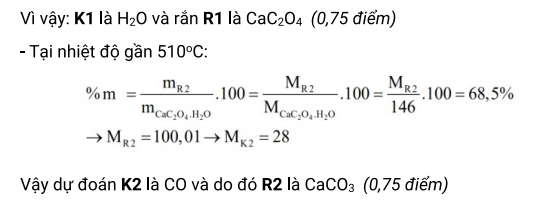
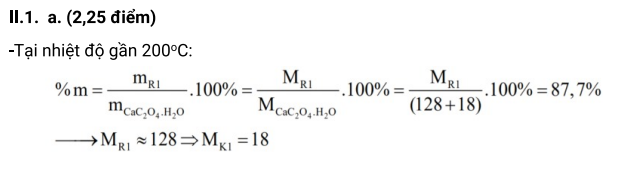


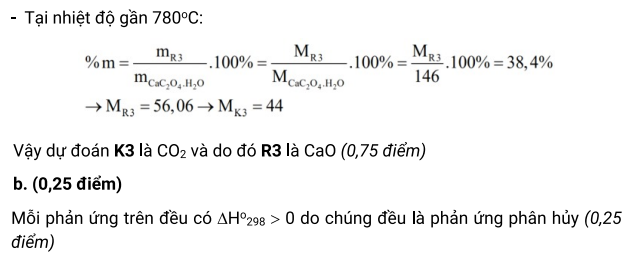


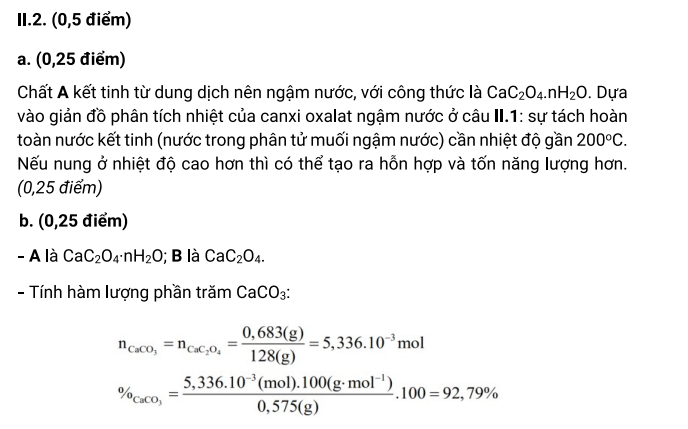




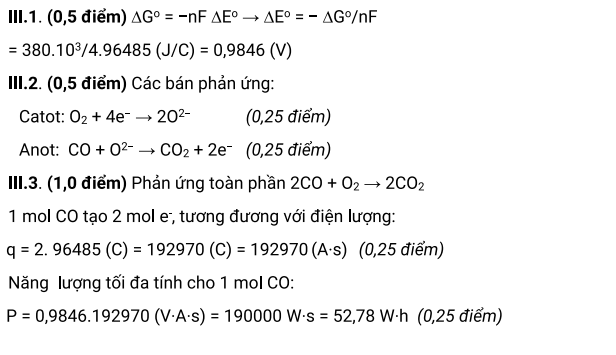
**Câu II (3 điểm):**

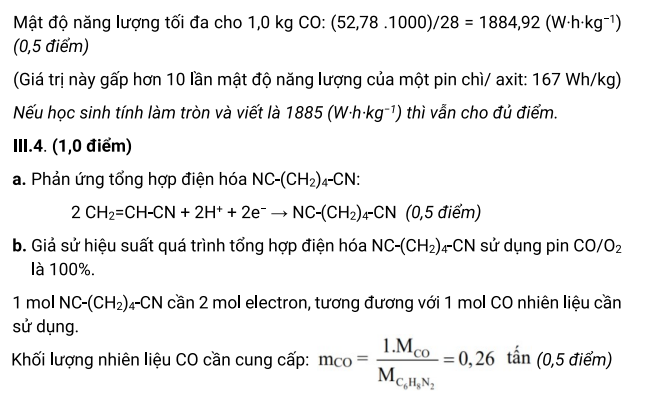




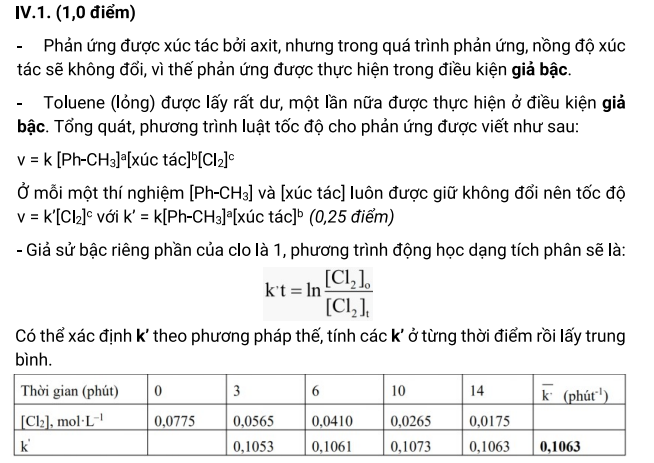


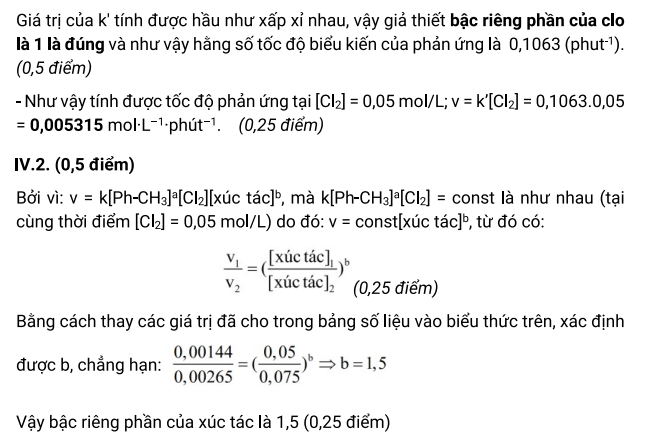
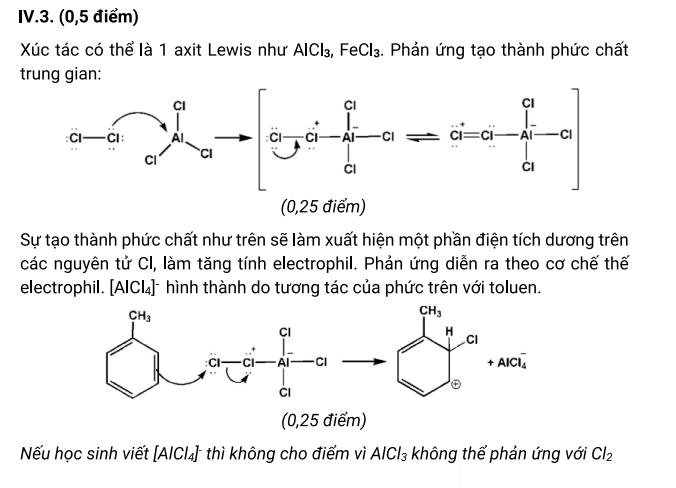
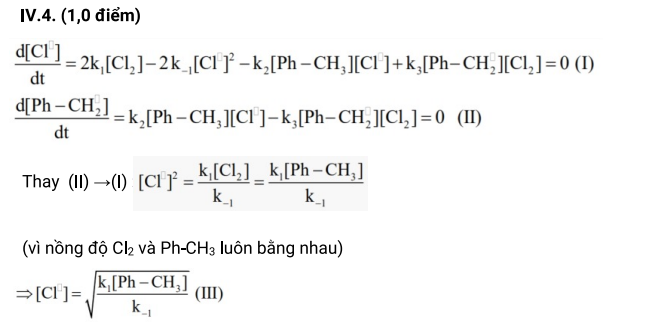
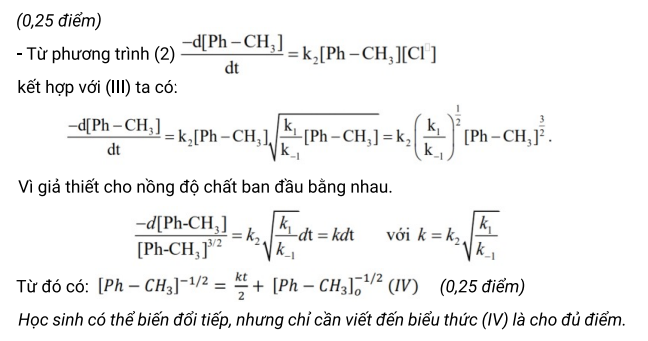
**Câu III (3 điểm):**



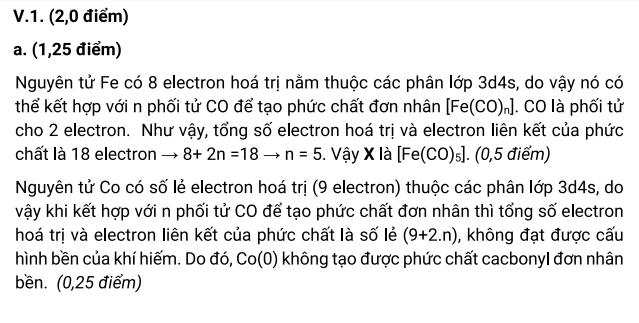
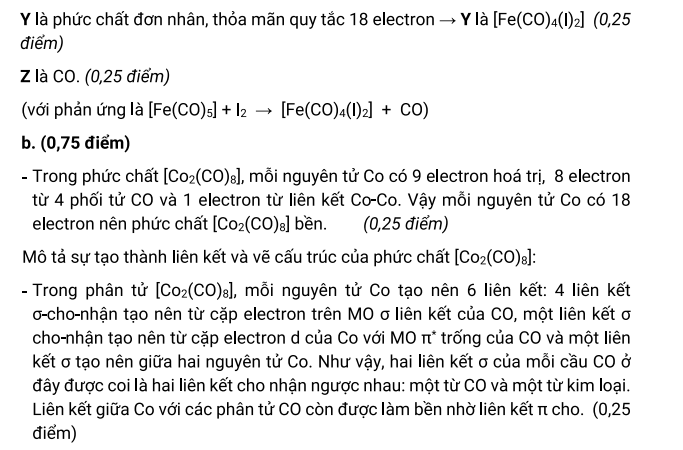
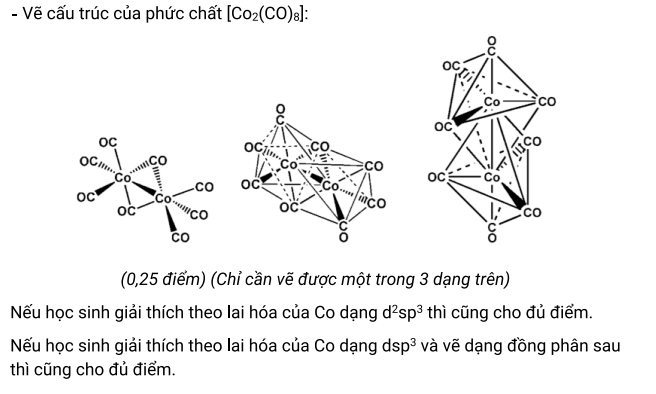
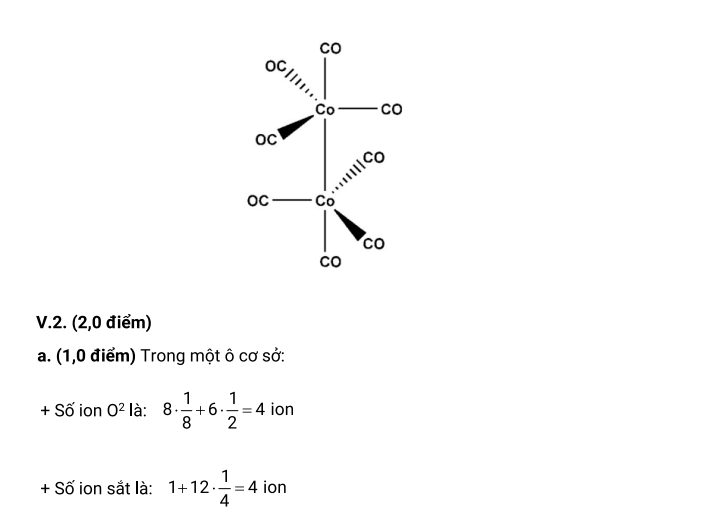
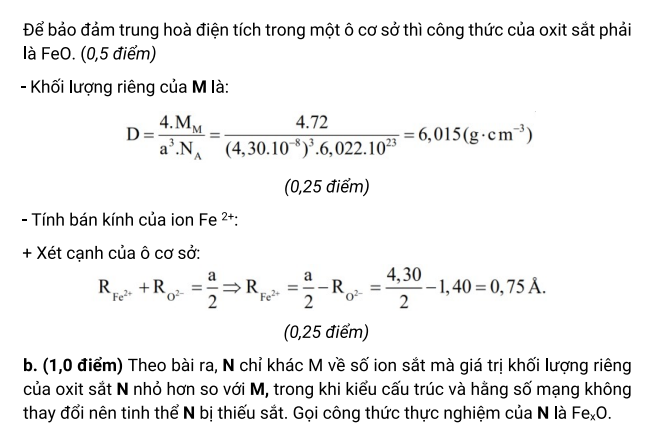
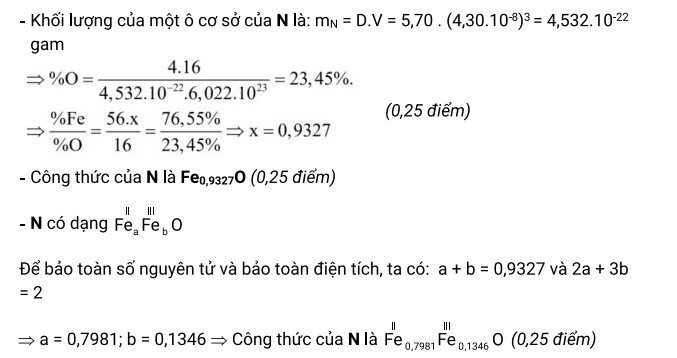
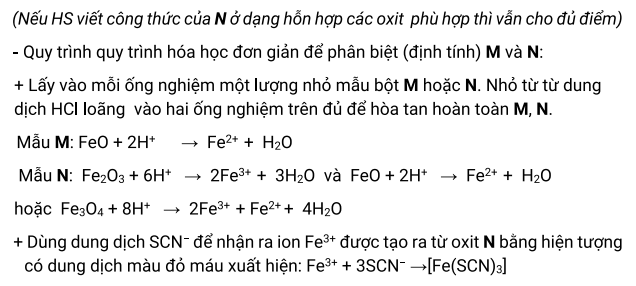


**Câu IV (3 điểm):**



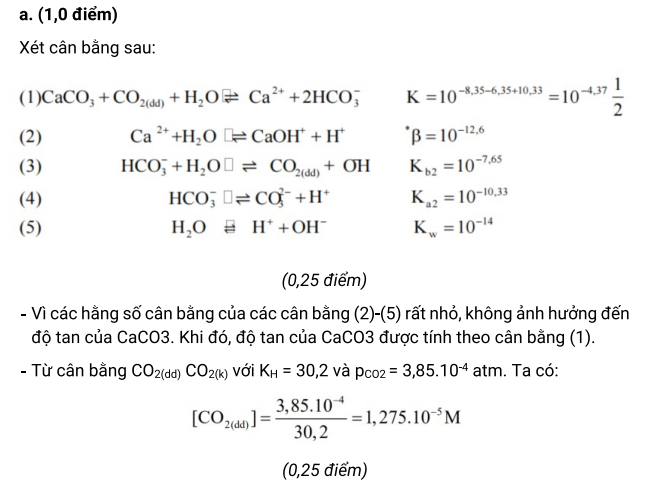
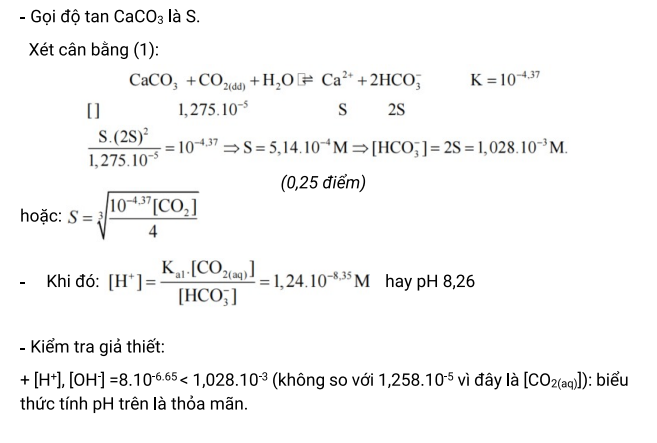
   

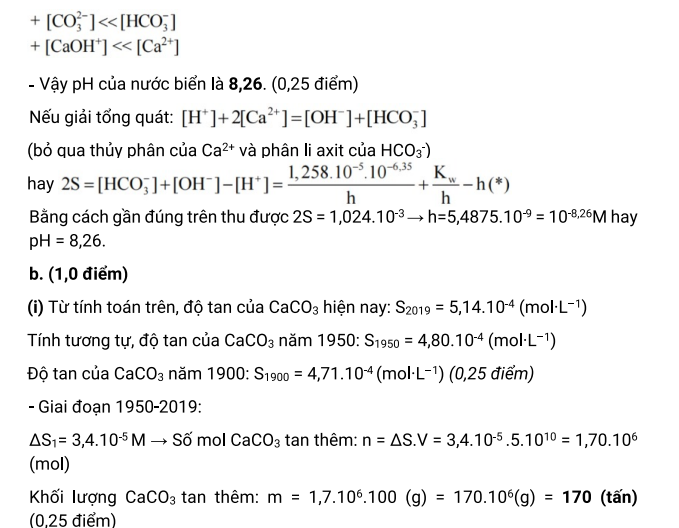
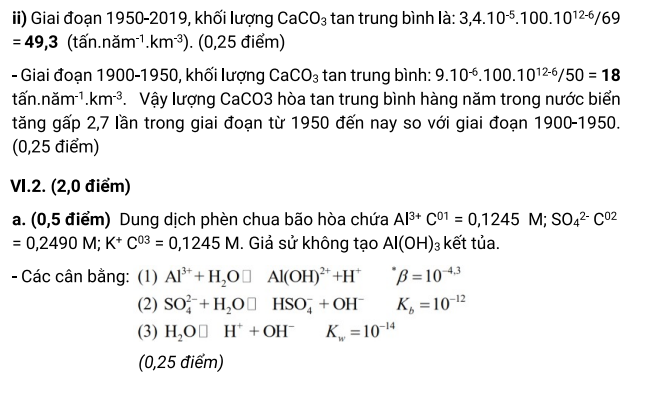
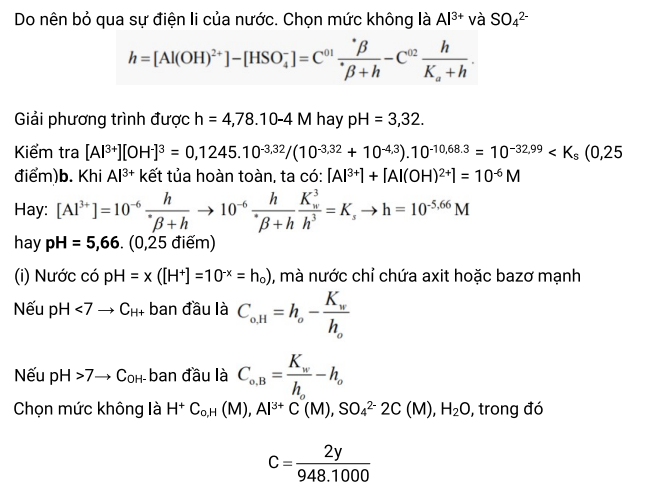
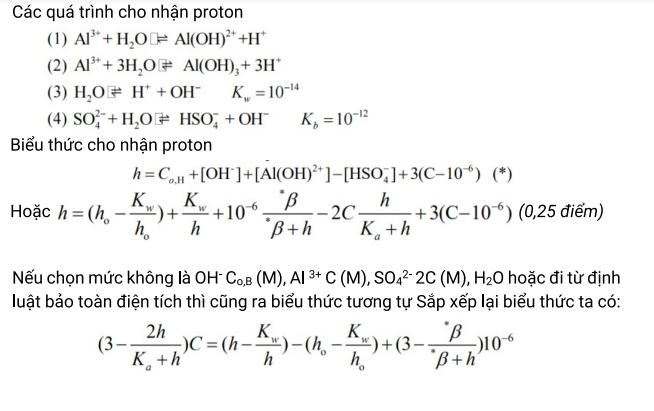
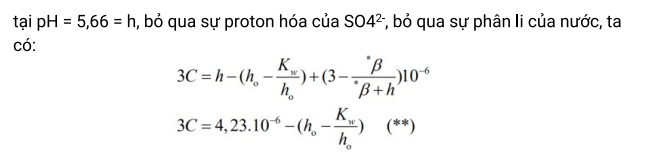
**Câu V (4 điểm):**

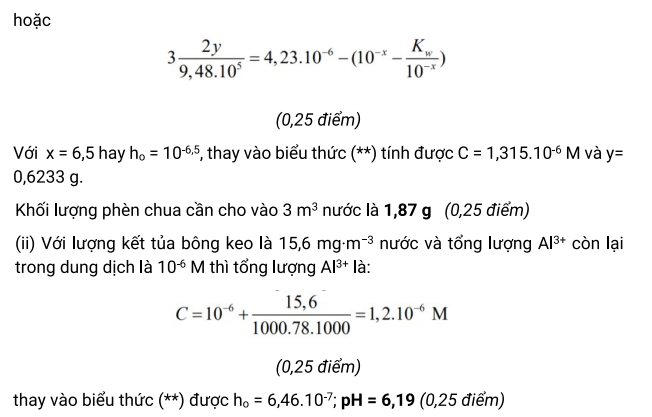
      

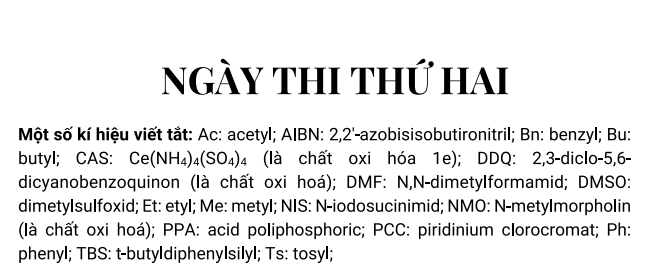
**Câu VI (4 điểm)**

**VI.1 (2 điểm)**

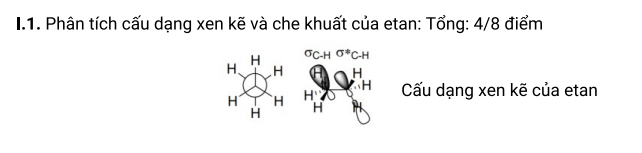
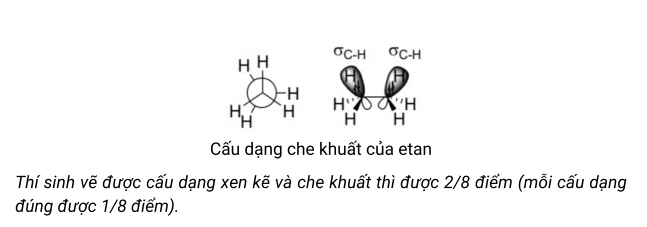
 

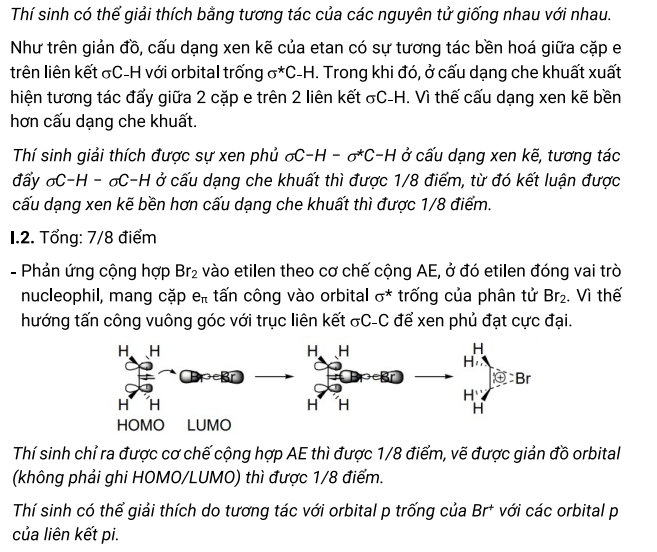
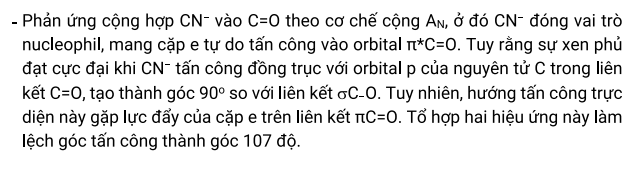
    

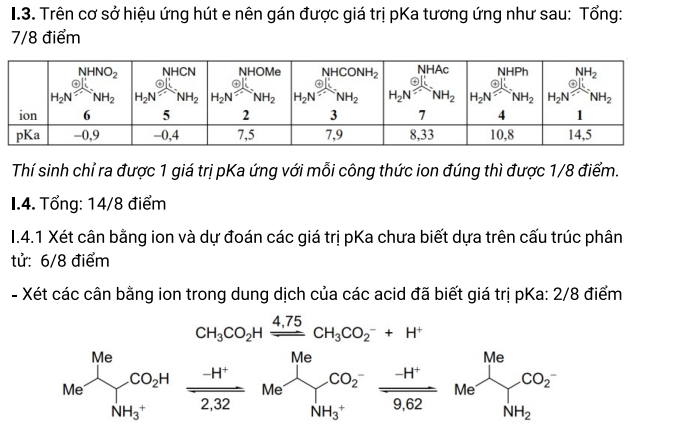
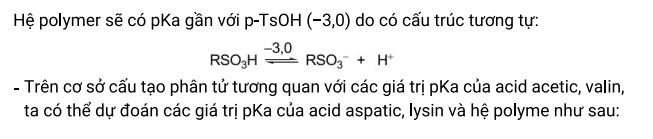
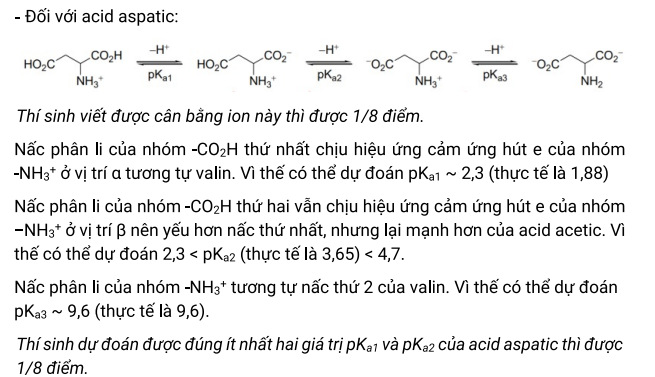


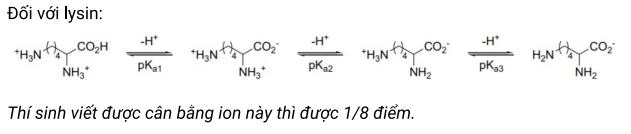


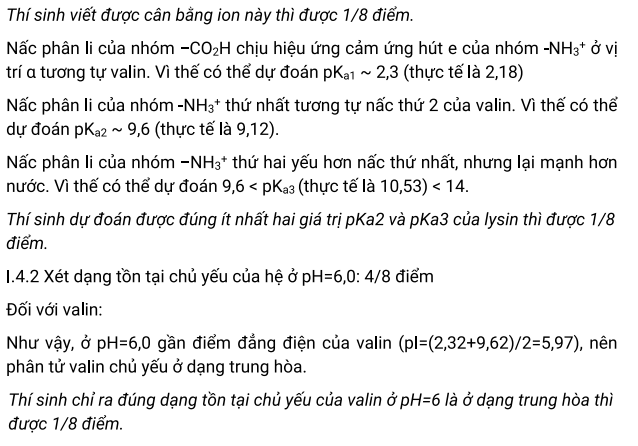
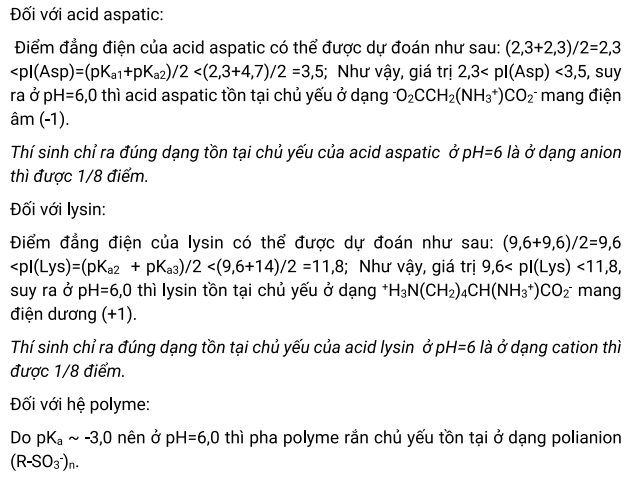
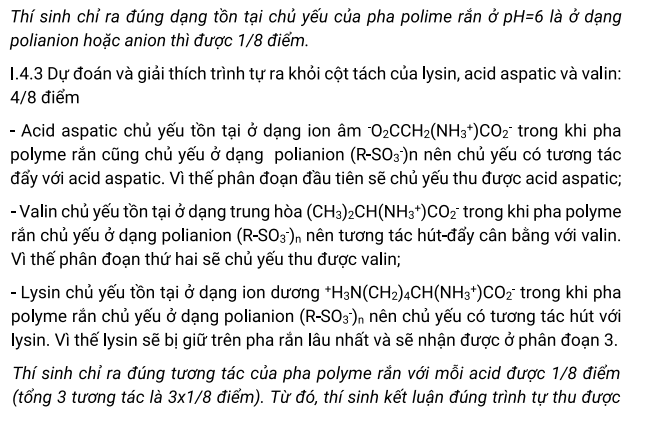
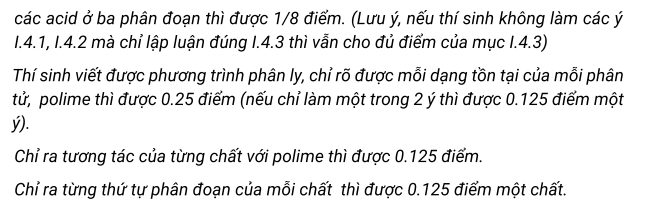
**Câu I (4 điểm)**

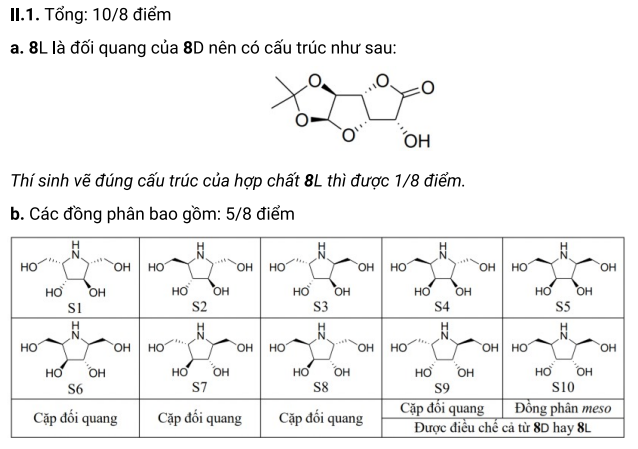
  

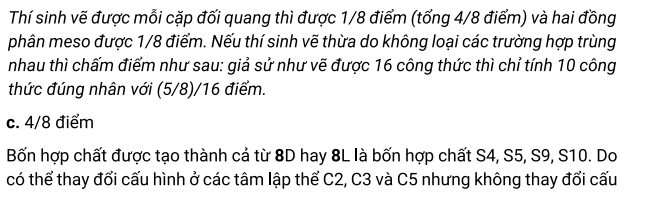
  

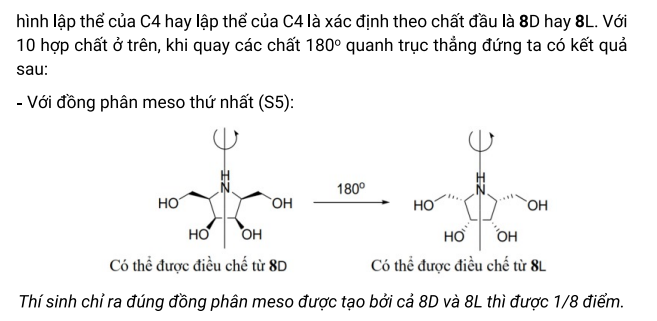
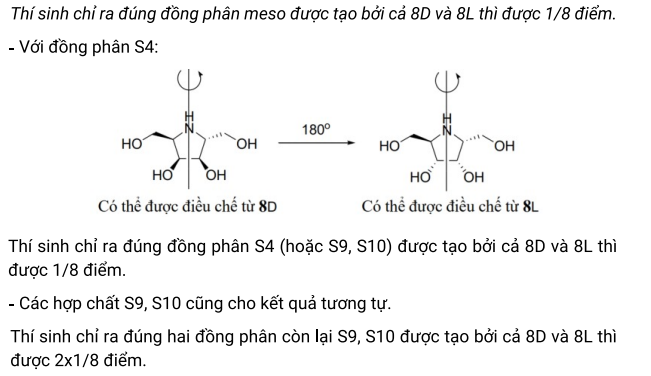
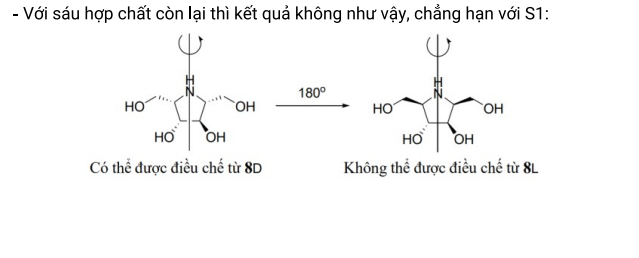


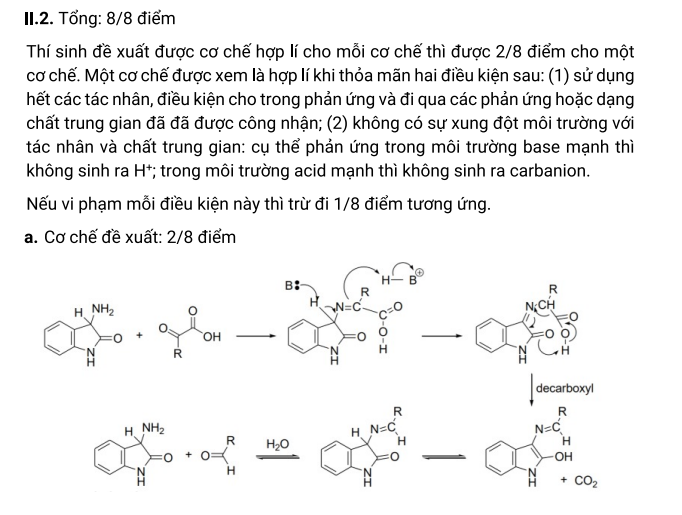
   

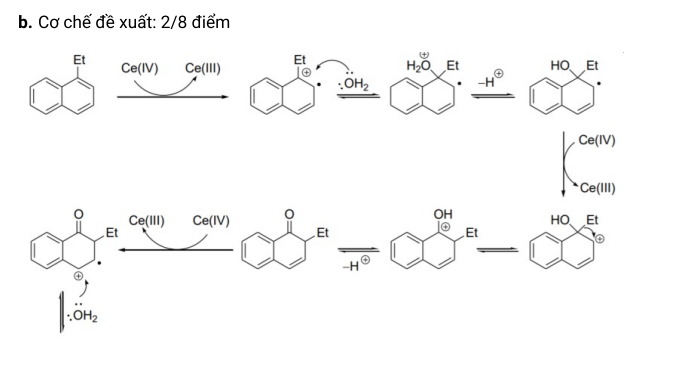
**Câu II ( 3điểm)**

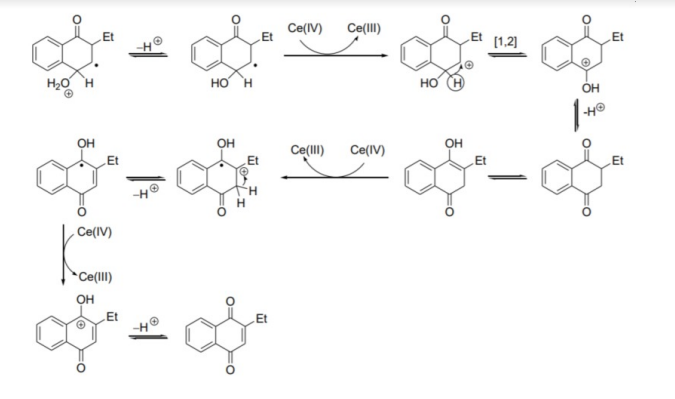
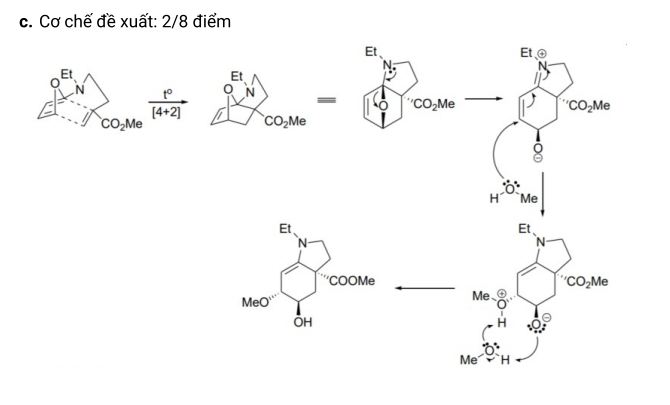
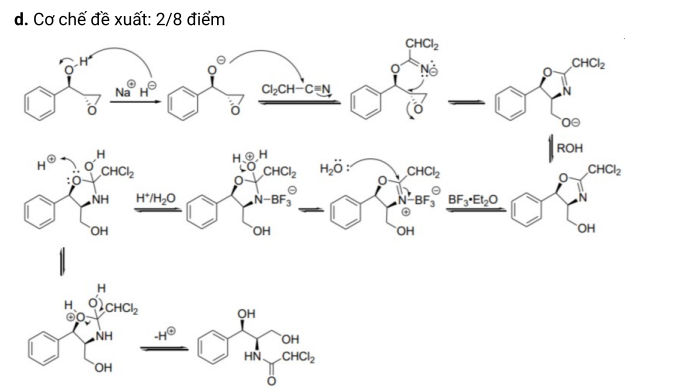


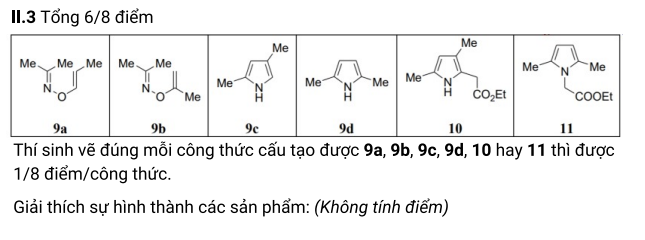
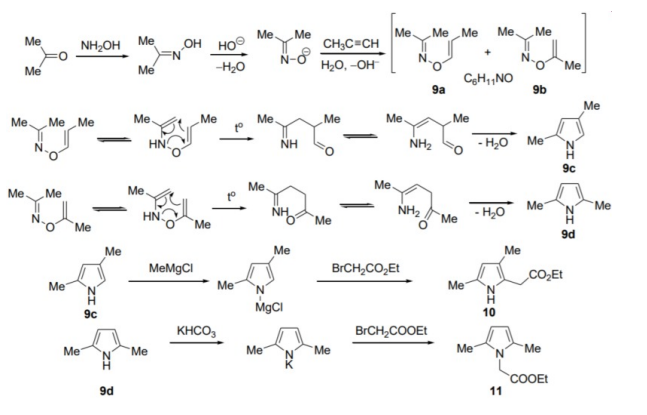


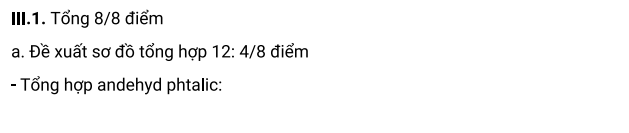
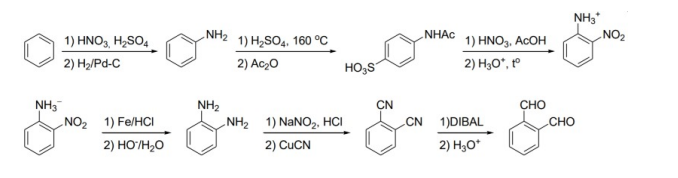


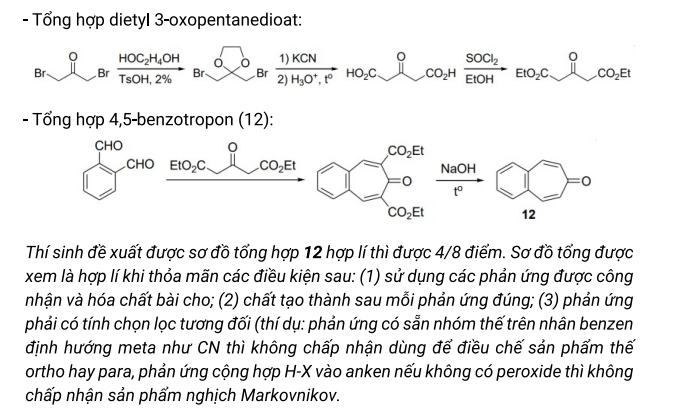
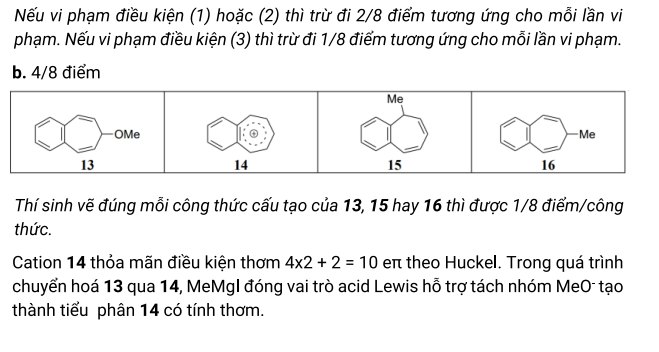
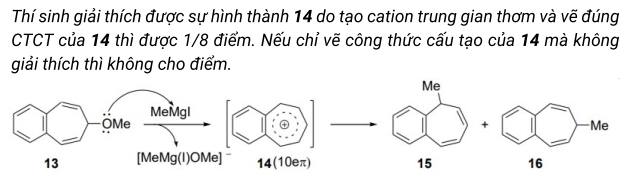


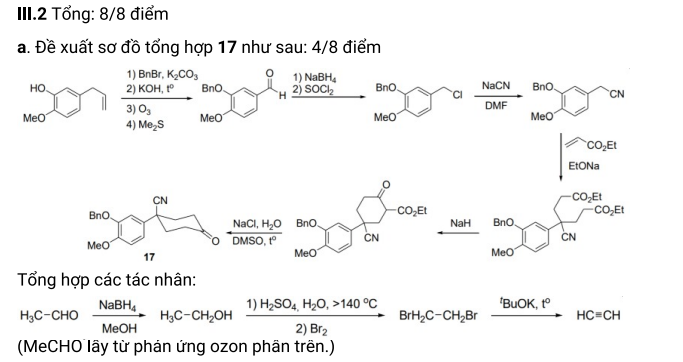
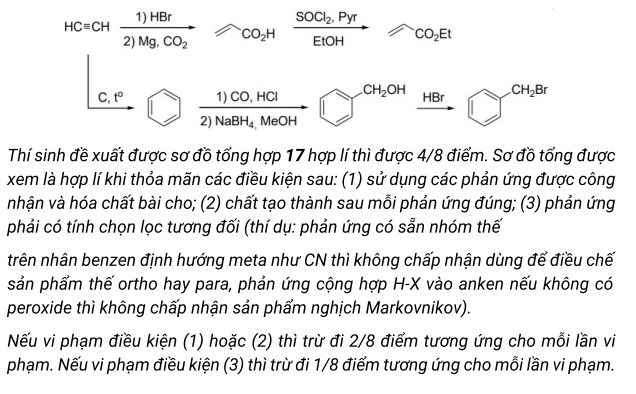
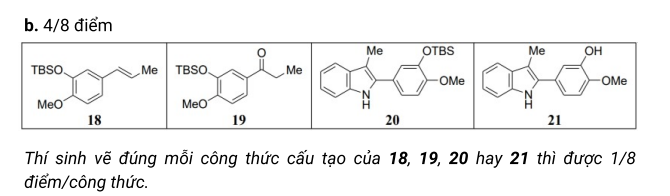
  

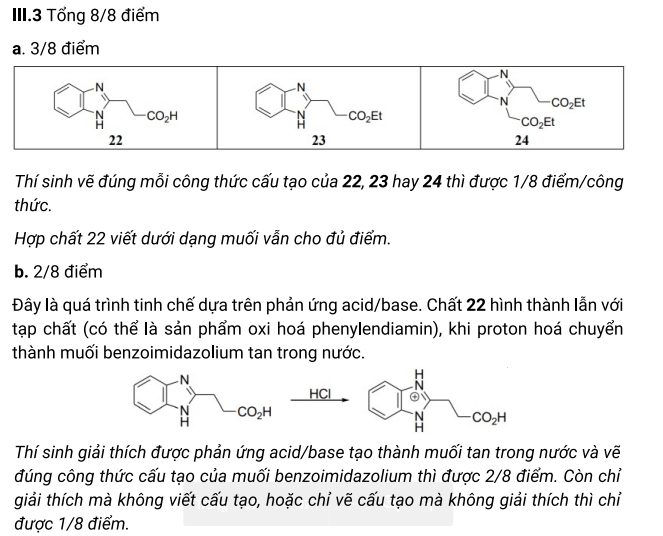
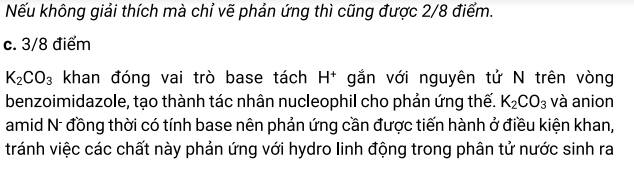
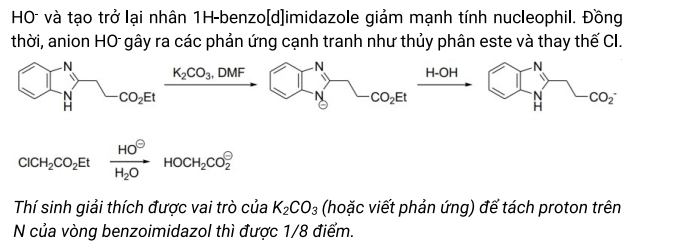
 

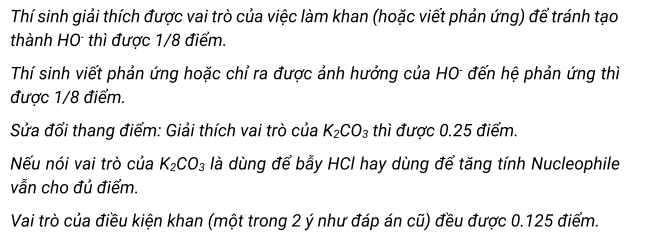
**Câu III (3 điểm):**

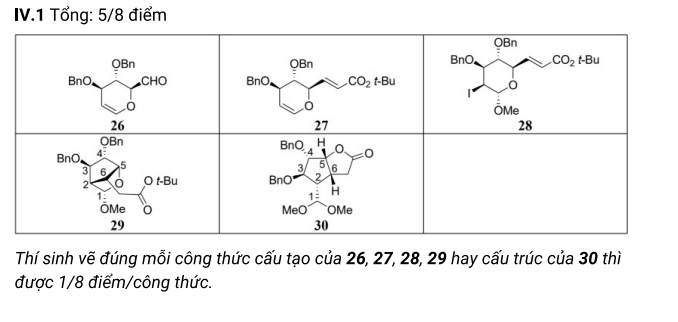
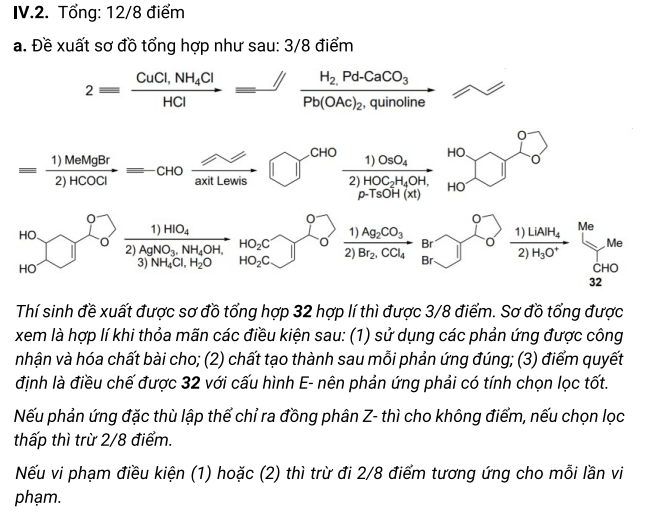
  

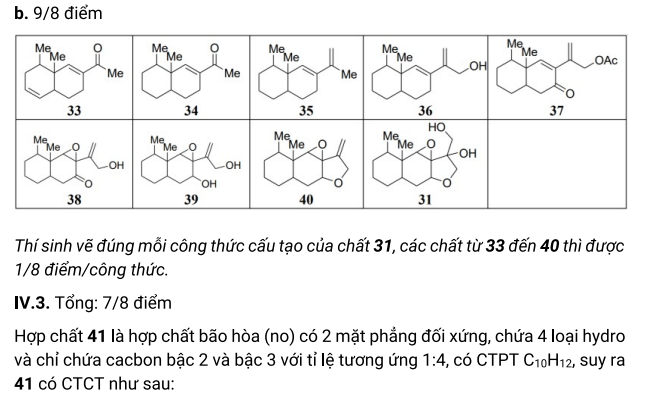
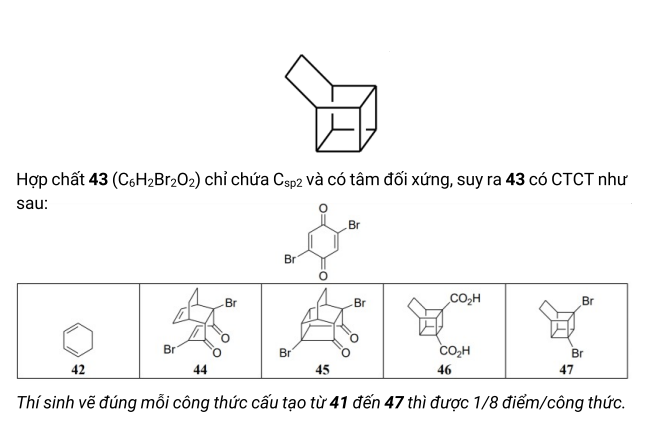
  

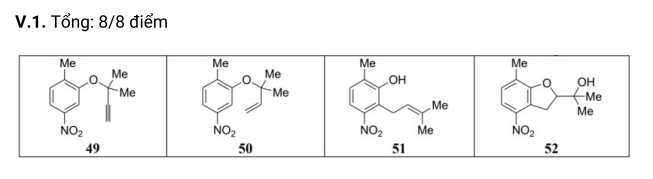
  

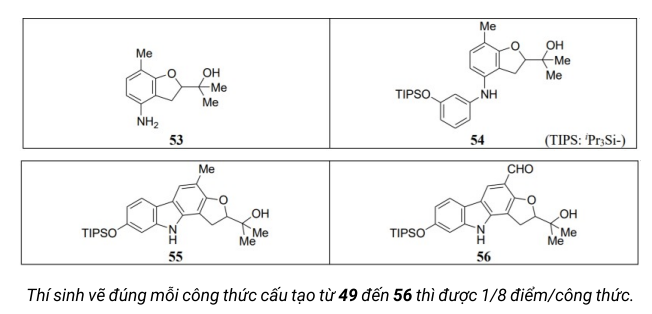
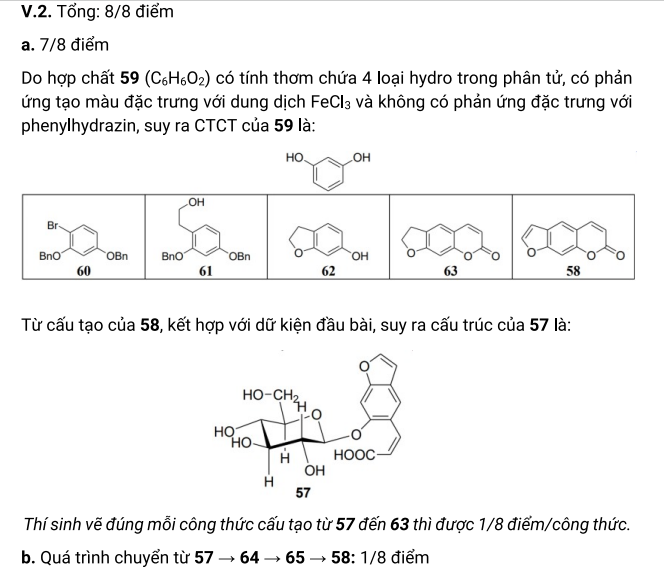


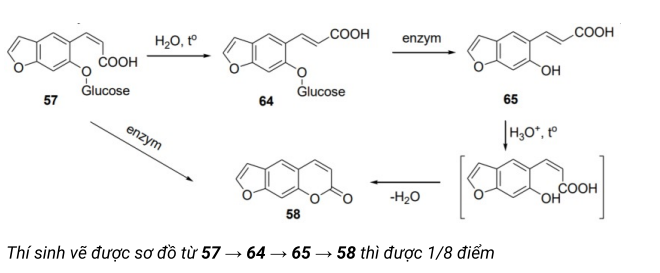
**Câu IV (3 điểm)**

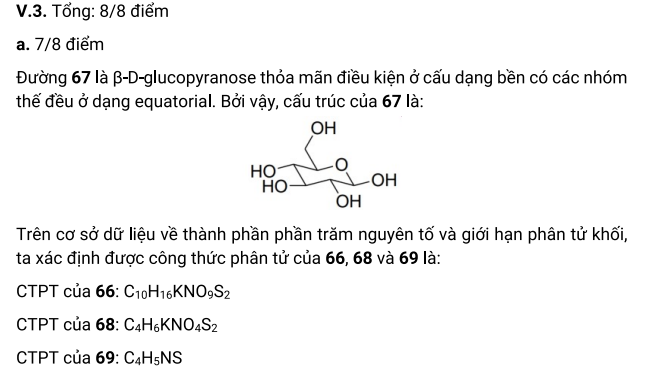
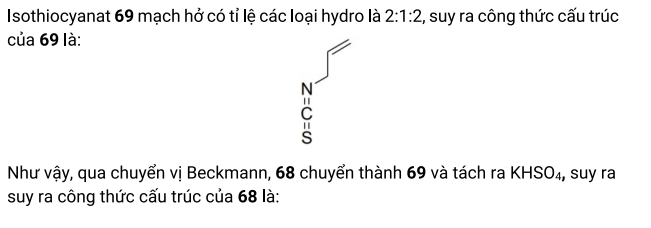
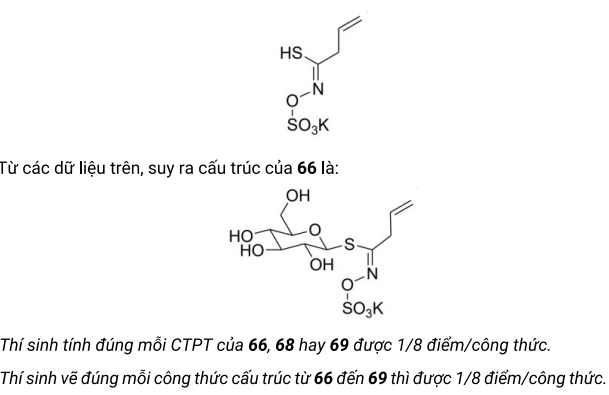
 

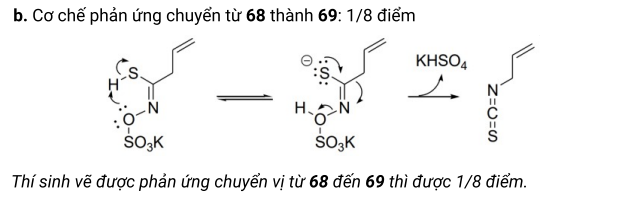
 

**Câu V(3 điểm)** 





**Câu VI (4 điểm)**

