

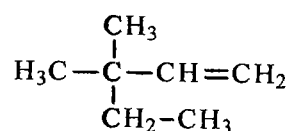
大葉大學 94 學年度轉學招生考試試題紙

系	組	別	日\ 第二部	年級	考試科目 (中文名稱)	考試日期	節次	備註 11=10 ~ 12=30
生物	系	科技	日	三	有機化學	7月12日	3	P2-1 共二頁

註：考生可否攜帶計算機或其他資料作答，請在備註欄註明（如未註明，一律不准攜帶）

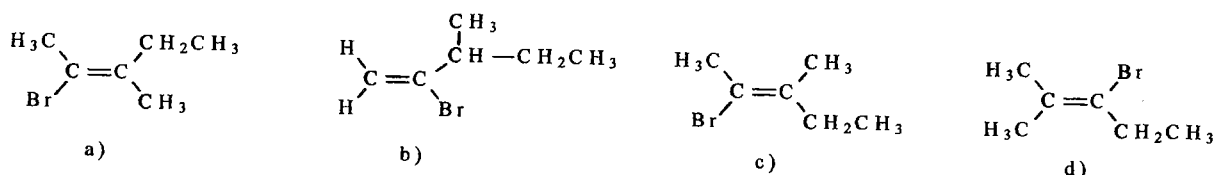
一、單選題，每題六分

1. Which is the IUPAC name for the following structure?



- a) 3,3-dimethyl-4-pentene b) 3-methyl-3-ethyl-1-butene
c) isopropylpentene d) 3,3-dimethyl-1-pentene

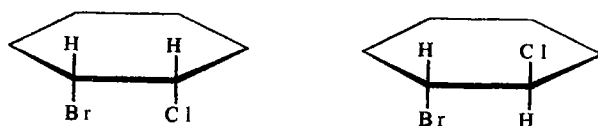
2. Which structure is Z-2-bromo-3-methyl-2-pentene?



3. Which is the major product from acid catalyzed hydration of 2-methyl-2-pentene?

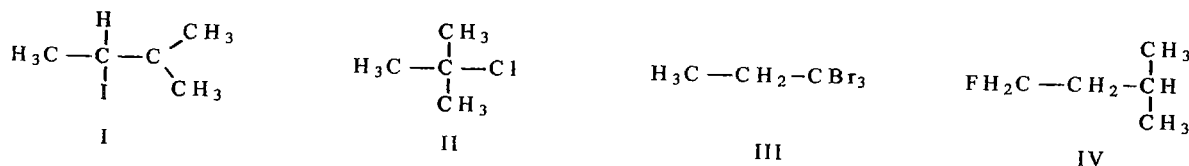
- a) 2-methyl-3-pentanol b) 2-methyl-2-pentanol
c) 4-methyl-2-pentanol d) 3-methyl-3-pentanol

4. What is the relationship between these two structures?



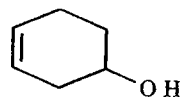
- a) identical structures b) enantiomers
c) diastereomers d) constitutional isomers

5. Which compounds are primary halides?



- a) I, II b) I, IV c) II, III d) III, IV

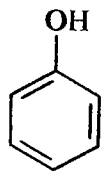
6. Which is the IUPAC name for the following structure?



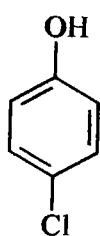
- a) cyclohexenol b) 3-cyclohexen-1-ol
c) 1-cyclohexen-4-ol d) 4-cyclohexenol

7. Arrange the compounds in order of increasing acidity (least first).

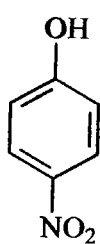
- a) I, II, III, IV b) III, II, IV, I c) I, IV, III, II d) II, III, IV, I



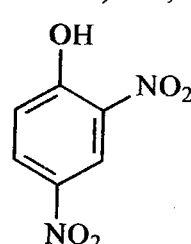
I



II



III



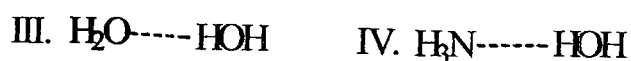
IV

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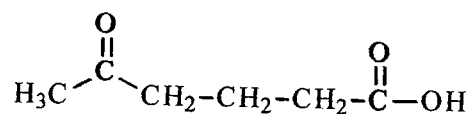
系	組	別	日 第二部	年級	考試科目 (中文名稱)	考試日期	節次	備註
生物產業科技學系			日	三	有機化學	7月12日	3	P2-2

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8. Arrange the following in order of increasing strength of the hydrogen bonds (weakest first).



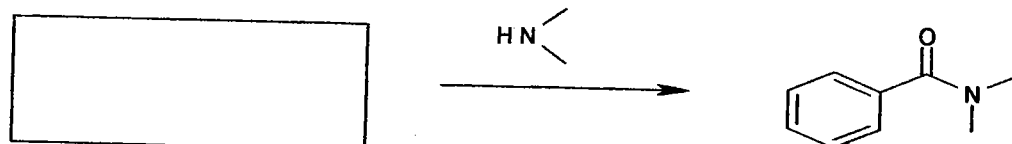
- a) I, II, III, IV b) II, IV, I, III c) II, I, IV, III d) I, IV, II, III
9. How many chiral ketones are there that have the molecular formula $\text{C}_6\text{H}_{12}\text{O}$?
a) 1 b) 2 c) 3 d) 4
10. Which is the IUPAC name for the following compound?



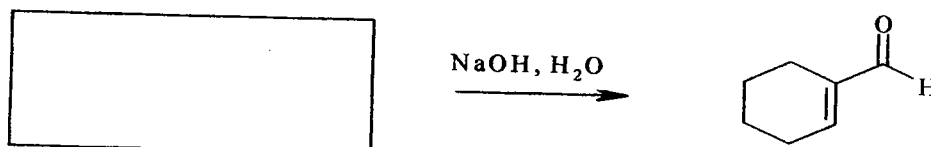
- a) 5-oxohexanoic acid b) 2-oxohexanoic acid
c) methyl butyroxone d) 4-ketopentanoic acid

二、簡答題，每題十分，請寫出底下各題方格中正確之化合物之結構

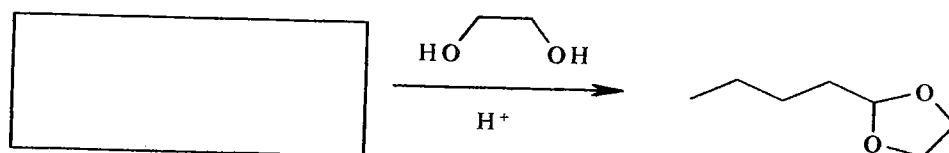
11. The starting material that completes the following reaction is,



12. The starting material that completes the following reaction is,



13. The starting material that completes the following reaction is,



14. The starting material needed to complete the following reaction is,

