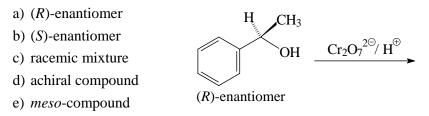


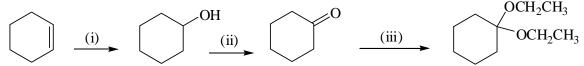
6. What is the order of priority $(1^{st} = highest)$ and the absolute configuration of the following compound?

1^{st}	2^{nd}	3^{rd}	4^{th}	Abs. Config.	
a) Br	CH ₃	COOH	Η	<i>(S)</i>	
b) Br	COOH	CH ₃	Η	(R)	COOH
c) COOH	Br	CH ₃	Η	(R)	H ₃ C''''
d) Br	COOH	CH ₃	Η	(S)	Br
e) COOH	Br	CH ₃	Н	(S)	

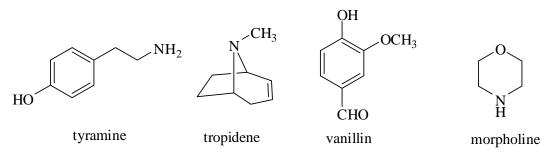
7. Which of the following terms best describes the product from the following reaction?



8. The reagents and reaction conditions to carry out the transformations below are:



- a) (i) hot dilute H_2SO_4 (ii) $Cr_2O_7^{2-}/H^+$ (iii) excess ethanol/ H^+
- b) (i) hot dilute $OH^{-}/H_{2}O$ (ii) $Cr_{2}O_{7}^{2-}/H^{+}$ (iii) $NaOCH_{2}CH_{3}$ in ethanol
- c) (i) hot dilute H_2SO_4 (ii) OH^-/H_2O (iii) excess ethanol
- d) (i) hot conc. H₂SO₄ (ii) LiAlH₄ followed by dilute acid (iii) NaOCH₂CH₃ in ethanol
- e) (i) hot dilute $OH^{-}/H_{2}O$ (ii) $Cr_{2}O_{7}^{2-}/H^{+}$ (iii) excess ethanol/ H^{+}
- Q 9-10 refer to the following four molecules.



9. Which of the compounds will undergo an acid-base reaction with dilute HCl?

a) tyramine and tropidene only	b) tyramine, tropiden	e and morpholine only
c) tyramine only	d) tropidene only	e) all of them

10. Which of the compounds will undergo an acid-base reaction with dilute NaOH?

a) tyramine and vanillin only	b) tyramine, vanil	lin and morpholine only
c) tyramine only	d) vanillin only	e) none of them

Correct answers: 1E, 2B, 3E, 4A, 5C, 6D, 7D, 8A, 9B, 10A