

II

(10)

1: (1, 2, 3, 4, 5) ;
 2: (1, 2, 3, 4, 5) ;
 (6%), (10%), (1%); (1%), (II) (5%),
 (1-3%), (10%), (10%),

()	
1	
1.	
1) - -	
2) - CH ₂ (OH)CH(OH)CH ₂ (OH), (II), (): CuSO ₄ + 2NaOH → Cu(OH) ₂ + Na ₂ SO ₄ .	
$ \begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{CHOH} \\ \\ \text{CH}_2\text{OH} \end{array} + \text{Cu(OH)}_2 \longrightarrow \begin{array}{c} \text{CH}_2\text{---O} \\ \quad \diagup \\ \text{CH---O} \quad \text{Cu} \\ \\ \text{CH}_2\text{OH} \end{array} + 2\text{H}_2\text{O} $	8
3) - H ₃ CHO, (II). Cu ₂ O:	
4) H ₃ -CHO + Cu(OH) ₂ $\xrightarrow{t, ^\circ\text{C}}$ H ₃ -COOH + Cu ₂ O + H ₂ O H ₃ COOH, (Na CO ₃ (.)). CO ₂ :	
5) H ₃ COOH + Na CO ₃ = CH ₃ COONa + CO ₂ + H ₂ O	
2.	
12 22 11 $\xrightarrow{H_2S, \Delta}$ 12C + 11 2	2
	0
	10