一、选择题

1	2	3	4	5	6	7	8
C	C	B	BD	BD	B	D	D
9	10	11	12	13	14	15	16
C	BC	B	BD	B	A	BD	C
17	18	19	20				
D	C						

二、文字题 (请抄清楚题号，每题一行，题间空行)

19. (1) H_2O + $HCOOCH_2-C(CH_3)_2-CH_3$ ⇌ (稀H_2SO_4, Δ) $HCOOH + CH_2(OH)-C(CH_3)_2-CH_3$

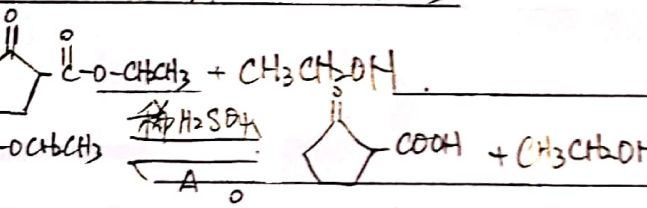
(2). $CH_3-C(CH_3)_2-CHO$.

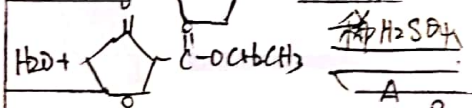
20. ① $2CH_3CH_2OH + 2Na \longrightarrow 2CH_3CH_2ONa + H_2\uparrow$

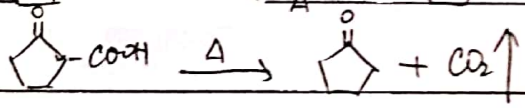
(2) $HOOC-(CH_2)_4-COOH + 2C_2H_5OH \xrightleftharpoons[\Delta]{浓H_2SO_4}$

$CH_3CH_2-O-C(=O)-(CH_2)_4-C(=O)-O-CH_2CH_3 + 2H_2O$.

(3) $CH_3CH_2-O-C(=O)-(CH_2)_4-C(=O)-O-CH_2CH_3 \xrightarrow{CH_3CH_2ONa}$



④ 

⑤ 

21. (1). ⑥ ②

(2) X消去, Y取代.

(3). A: $CH_2=C(CH_3)-COOCH_2CH(CH_3)CH_2Br$ B_2: $CH_2=C(CH_3)-COONa$

C_2: $CH_2(OH)-CH(CH_3)-CH_2OH$ ✗

C $CH_2(Br)-CH(CH_3)-CH_2OH$

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(4) ① H_2O+ $CH_2=C(CH_3)-COOCH_2CH(CH_3)CH_2Br \xrightleftharpoons[\Delta]{稀H_2SO_4} CH_2=C(CH_3)-COOH + CH_2(OH)-C(CH_3)-CH_2Br$.

② $2NaOH + CH_2=C(CH_3)-COOCH_2CH(CH_3)CH_2Br \xrightarrow[\Delta]{水溶液} CH_2=C(CH_3)-COONa + CH_2(OH)-CH(CH_3)-CH_2(OH) + NaBr$.

③ $2CH_2OH-CH(CH_3)-CH_2Br + O_2 \xrightarrow[\Delta]{Cu} CH_2Br-CH(CH_3)-CHO + 2H_2O$. 2 看三落2

$CH_2Br-CH(CH_3)-CHO + 2Cu(OH)_2 \xrightarrow[\Delta]{} CH_2Br-CH(CH_3)-COOH + Cu_2O + 2H_2O$.

$CH_2Br-CH(CH_3)-COOH + 2NaOH \xrightarrow[\Delta]{水溶液} CH_2(OH)-CH(CH_3)-COONa + H_2O + NaBr$.

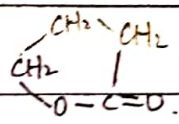
$2\,CH_2(OH)-CH(CH_3)-COONa + H_2SO_4(稀) \longrightarrow 2\,CH_2(OH)-CH(CH_3)-COOH + Na_2SO_4$. 能不能看题？正得我给改！

$CH_2(Br)-CH(CH_3)COOH + 2NaOH \xrightarrow[\Delta]{醇} CH_2=C(CH_3)-COONa + NaBr + 2H_2O$

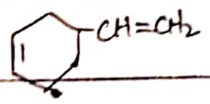
$CH_2=C(CH_3)-COONa + HCl \rightarrow CH_2=C(CH_3)COOH + NaCl$

22 (1) 加成. 消去.

(2). $CH_2OH\,CH_2\,CH_2\,CHO$.

(3). $CH_2OH-CH_2-CH_2COOH \xrightarrow[\Delta]{浓H_2SO_4}$  $+H_2O$.

(4). $CH_2=CH-CH=CH_2 + CH_2=CH-COOH \longrightarrow$ $COOH$.

(5) 

~~(6) d. (酚)~~ 没有

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