

# Group 4 + Protons

Jessica Kenyon E

Quinn Peterson W

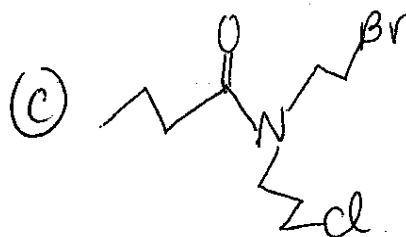
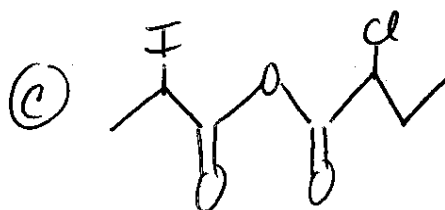
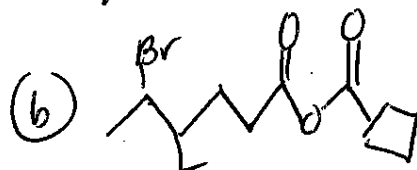
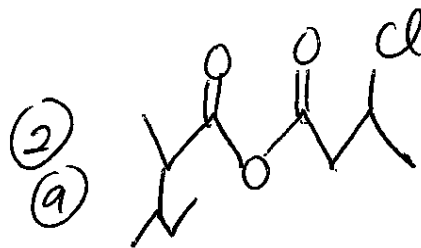
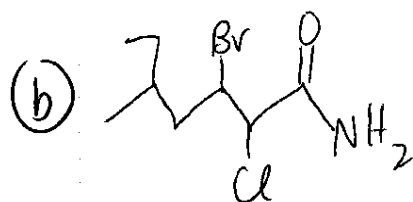
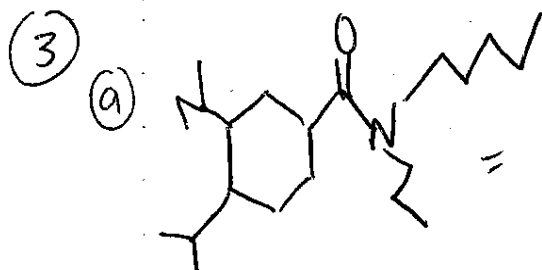
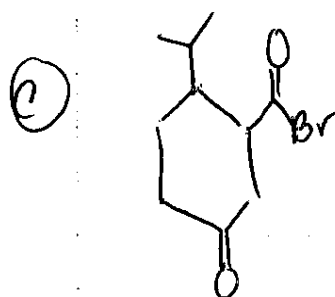
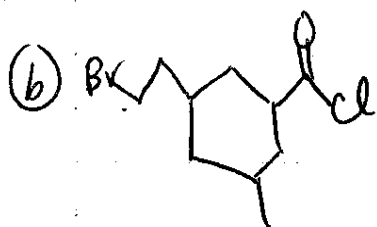
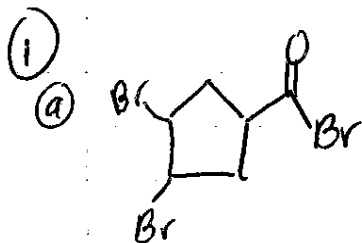
Jasiel Duarte W

Cayce Douthitt W

Ema Ashley F

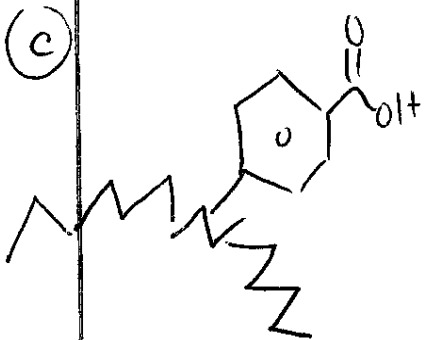
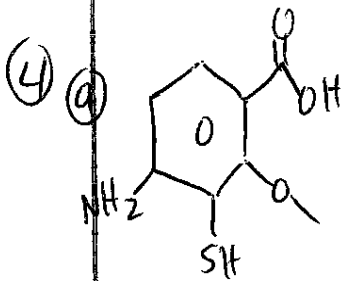
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## Draw Name

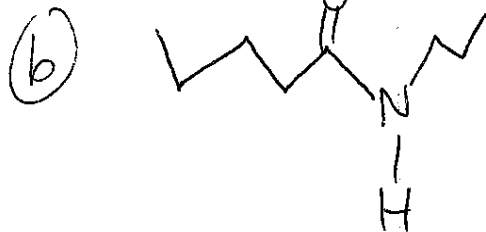
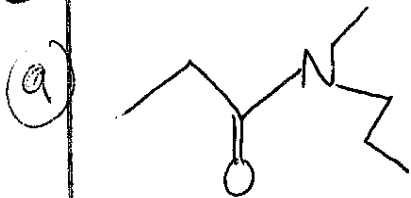


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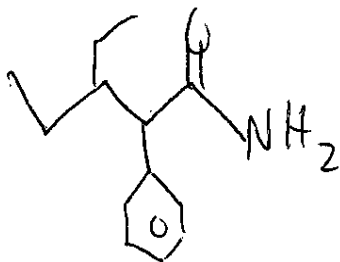
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(5)



(c)

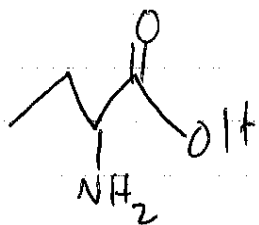


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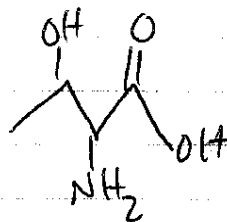
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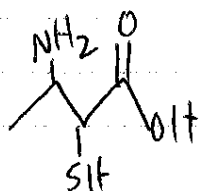
(a)



(b)

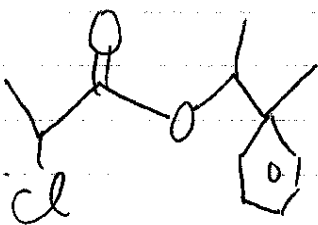


(c)

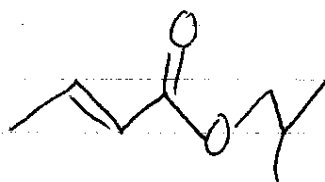


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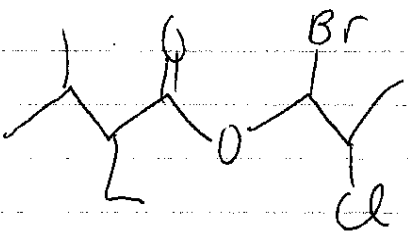
(a)



(b)



(c)



Draw

- ① 2-Ethyl butanoyl Bromide
- ② 2-methoxybutanoyl fluoride
- ③ 2-Ethyl-4-methyl pentanoyl chloride
- ④ Propanoic anhydride
- ⑤ 3-(3-cyclopentenyl)ethanoic anhydride
- ⑥ 3-chloro-2-methyl butanoic 3-bromo-2-ethyl pentanoic anhydride
- ⑦ N-sec-butyl cyclohexane carboxamide
- ⑧ N-isopropyl butanamide
- ⑨ 2-ethylthio-4-oxobutanamide
- ⑩ 3-bromo-4-chloro-4-(N-ethyl-N-propylamino)butanoic acid
- ⑪ 2-chloro-3,6-diamino benzoic acid
- ⑫ 5-amino-5-bromo-4-chloropentanoic acid
- ⑬ N-ethyl-N-propyl-3-oxopentanamide
- ⑭ N-ethyl-N-butyl-3-mercaptobutanamide
- ⑮ N-ethyl-N-propyl-3,4-epoxy-2-mercaptopentanamide
- ⑯ 3-amino-2-ethoxy-5-propylthio benzoic acid.
- ⑰ N-1-chloromethyl-N-propyl-1-bromo-2-chloro-3-oxo pentanamine
- ⑱ 1-hydroxypropyl propanoate
- ⑲ 1-mercaptopropyl propanoate
- ⑳ 1-propylbutyl propanoate
- ㉑ N-cyclopropyl-N-propyl-3-amino benzoic acid

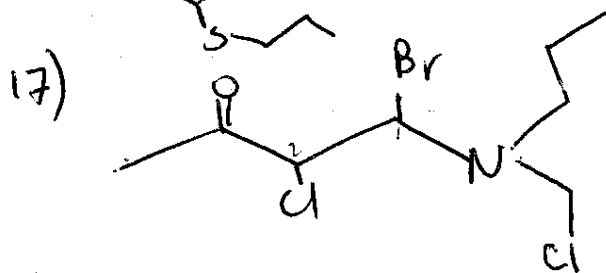
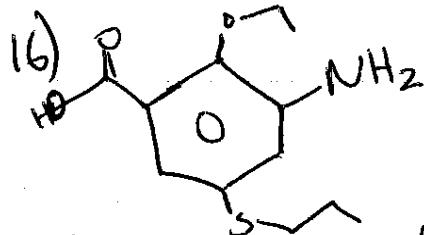
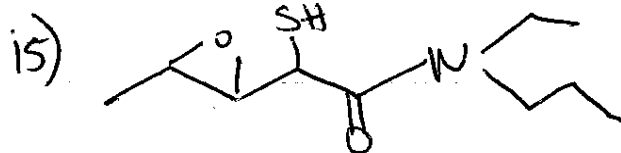
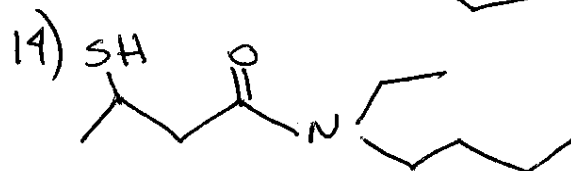
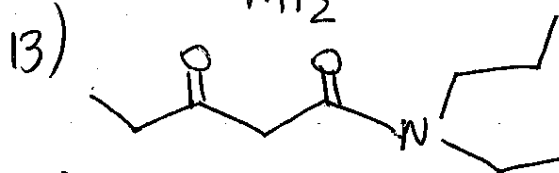
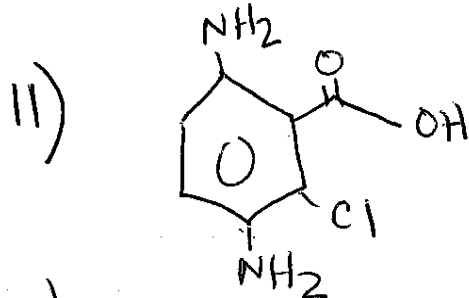
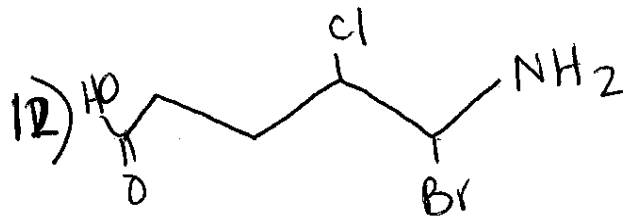
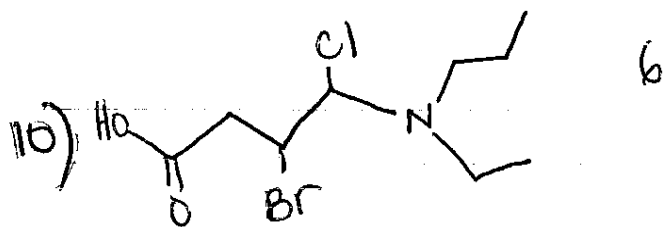
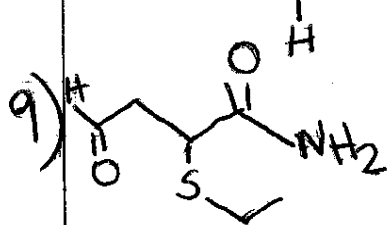
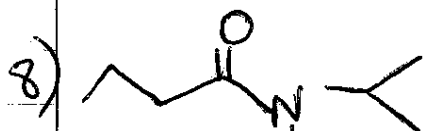
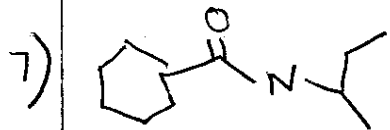
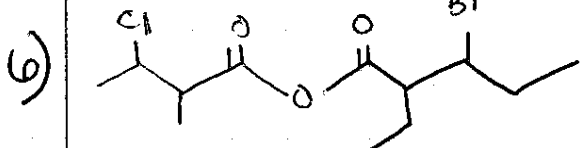
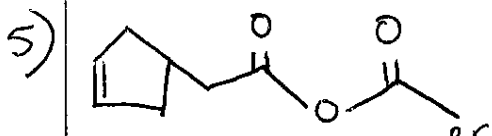
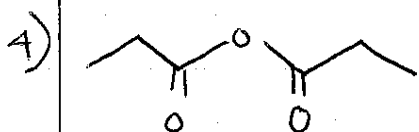
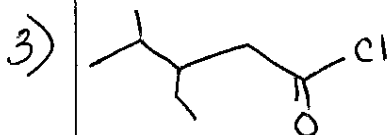
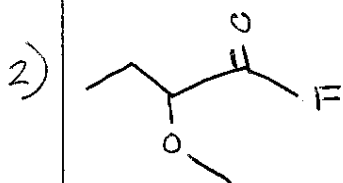
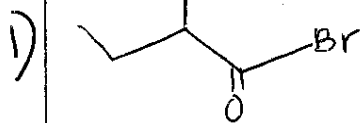
## Naming Answers

5

- ① a) 3,4-Dibromocyclopentane carbonyl bromide  
 b) ~~3~~-Bromoethyl-5-methyl  
 c) 2-isopropyl-~~5~~-oxo cyclohexanecarbonyl bromide
- ② a) 3-chlorobutanoic 2-sec-butylpropanoic anhydride  
 b) 5-bromo-4-ethylhexanoic 2-cyclobutanoic anhydride  
 c) 2-chlorobutanoic 2-iodopropanoic anhydride
- ③ a) N-pentyl-N-propyl-3-sec-butyl-4-isopropyl  
 cyclohexane carboxamide  
 b) 3-Bromo-2-chloro-5-ethylhexanamide  
 c) N-2-bromoethyl-N-3-chloropropylbutanamide
- ④ b) 2-butenamine  
 a) 4-amino-3-mercapto-2-methoxy benzoic acid  
 c) N-hexyl-N-pentyl-4-amino benzoic acid
- ⑤ a) N-methyl-N-propyl propanamide  
 b) N-propyl pentanamide  
 c) 3-ethyl-2-phenylpentanamide
- ⑥ a) ~~2~~-amino ~~mercapto~~ butanoic acid  
 b) 2-amino-3-hydroxybutanoic acid  
 c) 3-amino-2-mercapto butanoic acid
- ⑦ a) 1-methyl-2-phenylpropyl-2-chloro  
 propanoate  
 b) 2-methylpropyl-2-butenate  
 c) 1-Bromo-2-chloro propyl 2-ethyl-3-methyl  
 butanoate

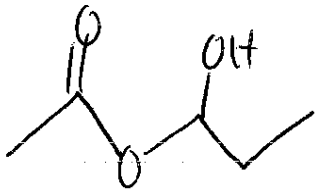
# Draw: Answers

+ protons



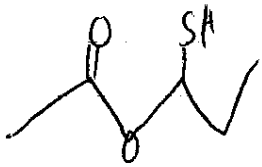
18

(a)



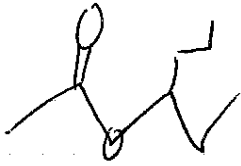
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(b)

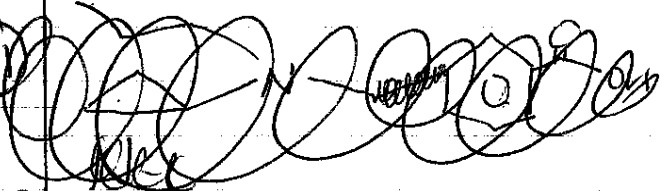


20

(c)



21



21

