

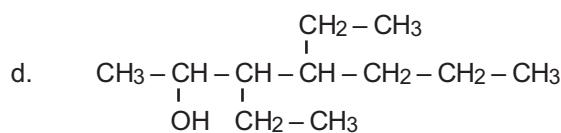
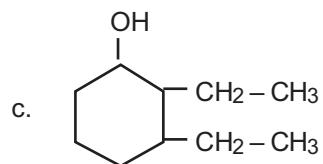
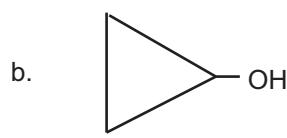
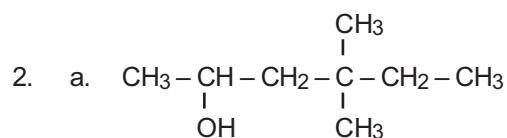
Section 26.12 Answers to Questions and Problems

Questions:

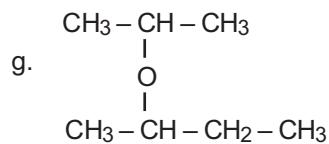
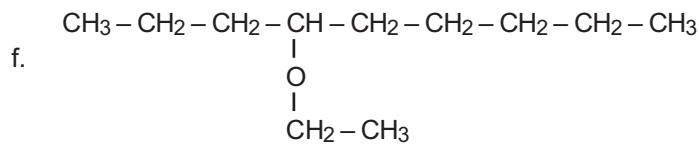
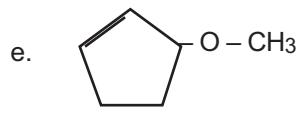
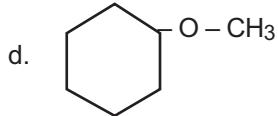
{1} Only one position is possible for the –OH group; {2} Whatever position the –OH group occupies is automatically #1 if the compound is named as an alcohol; {3} Such a compound would be an aldehyde, not a ketone

Problems:

1. a. 3-pentanol; b. 2-butanol; c. 3-methyl-2-butanol; d. 4,5-dimethyl-2-hexanol;
e. 4-ethyl-1-hexanol; f. cyclobutanol; g. 2-methylcyclohexanol; h. 3,4-dimethylcyclopentanol;
i. 2-ethyl-3-methylcyclopropanol; j. 2-propanol

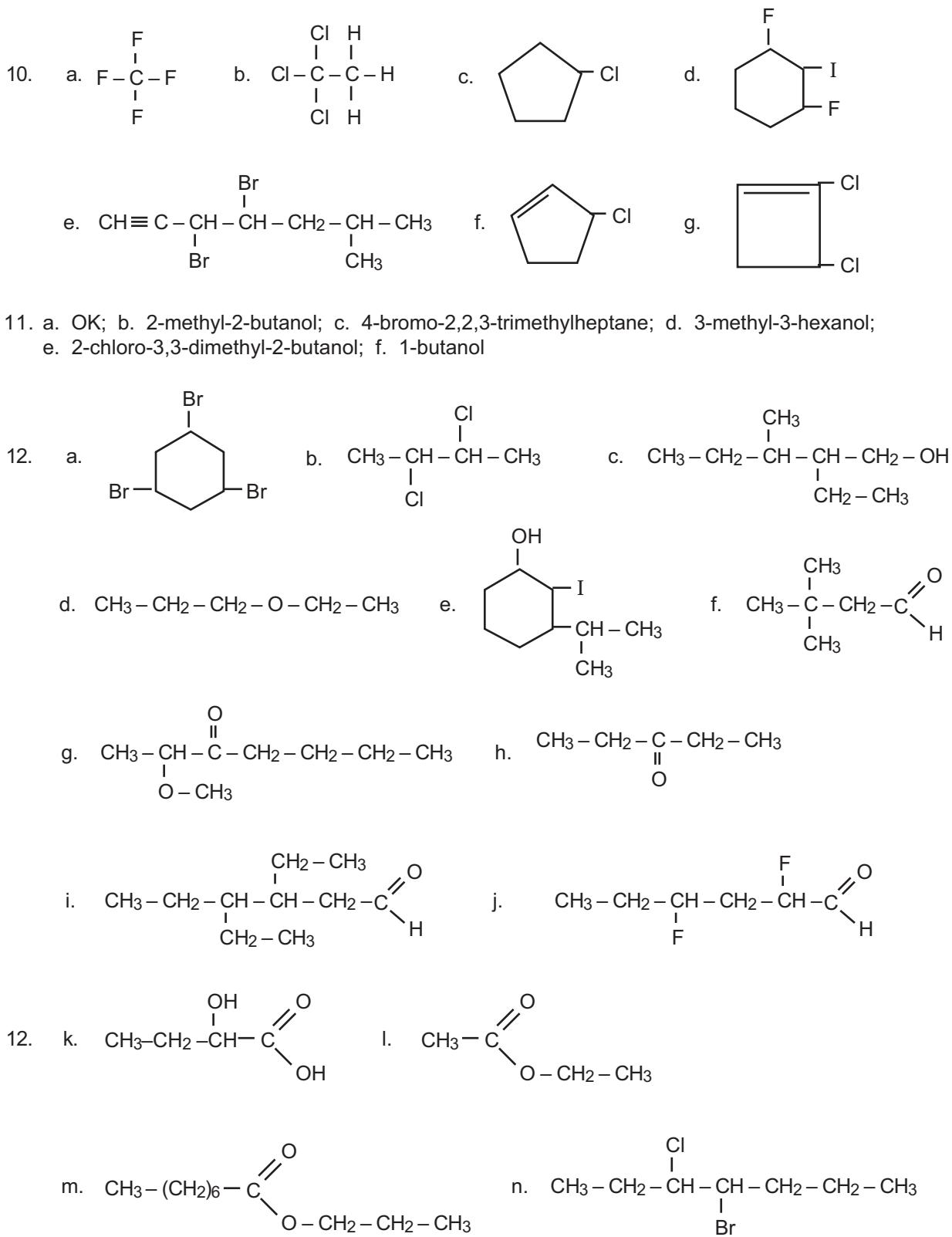


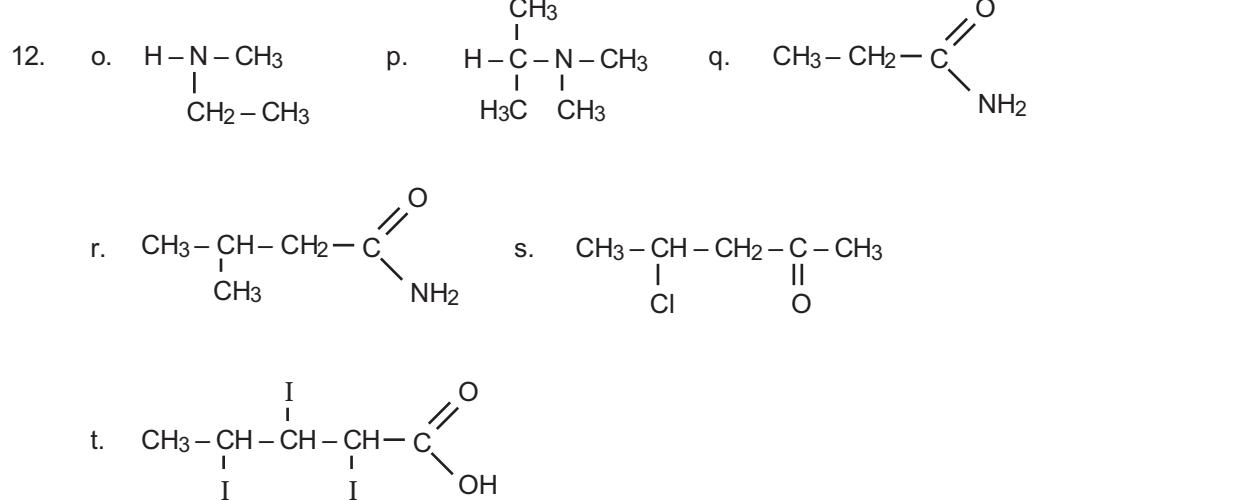
3. a. 1-methoxybutane; b. 1-propoxyp propane; c. 2-ethoxypentane



4. a. 2-butanone; b. 3-methylbutanal; c. 2,3-dimethylpentanal; d. 5,6-dimethyl-3-heptanone;
e. 7-methyl-4-octanone
5. a. 4-ethylhexanoic acid; b. hexanoic acid; c. 3-ethylhexanoic acid; d. 4,7-dimethyloctanoic acid;
e. 3-methylbutanoic acid; f. 4-n-butyl-4-methyloctanoic acid (The "n-" is optional.)
6. a. n-propyl butanoate (the n is optional here and in parts c, e, and f); b. methyl pentanoate
c. n-butyl propanoate; d. isopropyl ethanoate; e. n-propyl pentanoate; f. n-pentyl methanoate
7. a. ethyldimethylamine; b. ethylmethylamine; c. 2-amino-4-methylheptane;
d. methylpentylamine; e. triethylamine; f. 1-amino-6-methyloctane;
g. isopropylamine (or 2-aminopropane); h. cyclobutylamine (or aminocyclobutane)
8. a. methanamide; b. pentanamide; c. 4-ethylhexanamide; d. 3,3-dimethylbutanamide
e. 5-ethyl-3-methylheptanamide; f. 3,3,5-trimethylhexanamide

9. a. 2,3-dichloropentane; b. difluoromethane; c. 4-bromo-2-fluoro-3-iodohexane;
d. 3-bromo-1-butene; e. 1-bromoheptane; f. dichlorodifluoromethane





13. a. aminoethane; b. 2-aminopropane