1. d. (35, (4R, 6R, B)-4-chloro-6-fluoro-3,7-dimethylmonane

6. (55,6R)-5-ethyl-6-iodo-2,2,7-trimethylactane

(R, 55)-3,5 - dichloro - 3 - methyl heptane

(S) - 2,3,5-tri methyl hexane

e. 6- bromo methyl - 3- ethylder-5- ene

f. + (R)-4-ethyl-1-methyl cy clo hex ene

2,

J.

4.

a. en antio mers

b. en antiomers

C. Constitutional isomers

d. same

e, constitutional isomers

f. diarteriomers

9. Same

h, dias terro mers

3.

Other Stereoisomers.

Nane are meso compounds.

A Chiral

Chiral

A chiral

Chiral

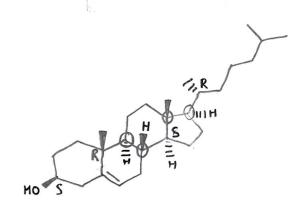
Chiral

Achira)

A chiral

5.

a. 9



6.

$$q. \frac{60.1}{66.5} \times 100\% = \boxed{90.4\%}$$

b.
$$0.909 = \frac{m-1}{m+1}$$
; $m=19.8$;

c.

E

E

Z

8.

ξ

3

2

٩.

q.

$$H - 0 - \frac{0}{11} - 0 - \frac{1}{11} + H - \frac{1}{0} \rightarrow H_{3}0^{+} + H_{504}^{-}$$