

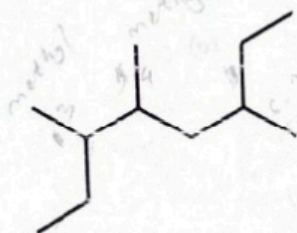


UNIT CODE: MBMB 1212

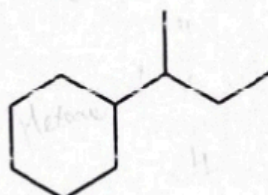
UNIT TITLE: GENERAL CHEMISTRY

CHAPTER 4 PRACTICE PROBLEM SET: ALKANES

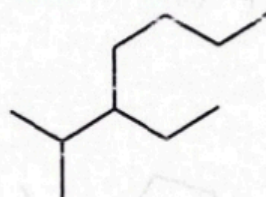
1. Provide a systematic name for each of the following compounds below:



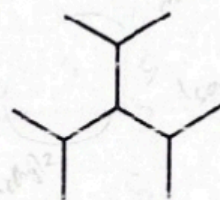
(a)



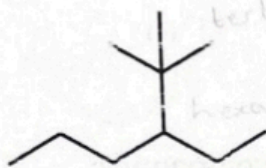
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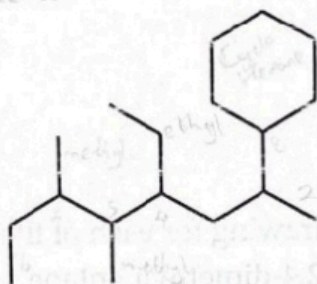
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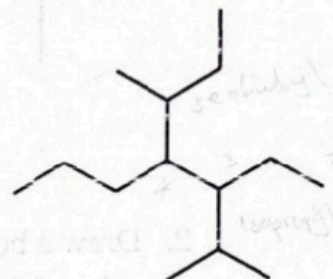
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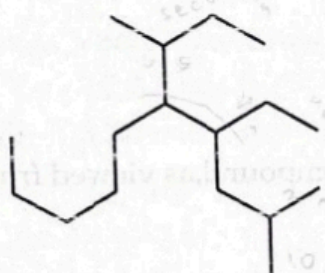
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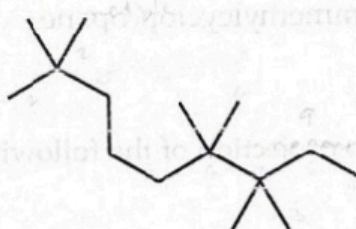
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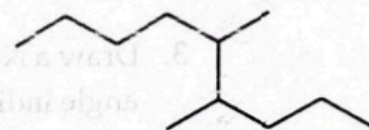
(g)



(h)



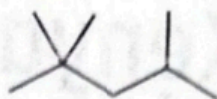
(i)



(j)



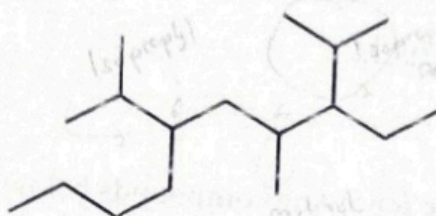
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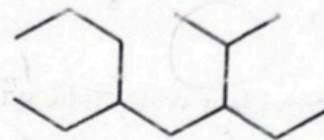
(l)



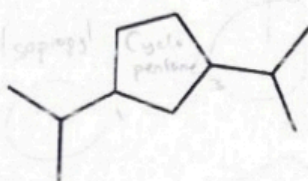
(m)



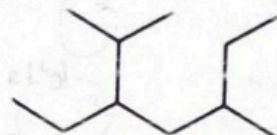
(n)



(o)



(p)

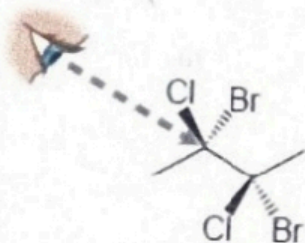


(q)

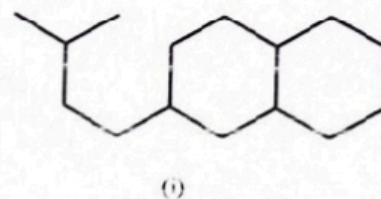
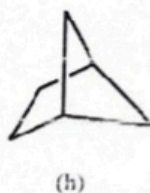
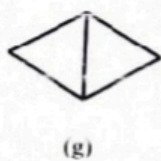
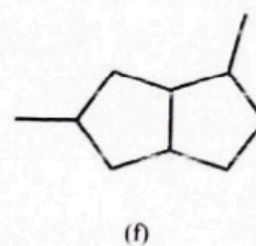
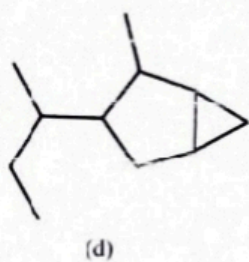
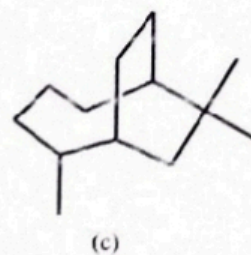
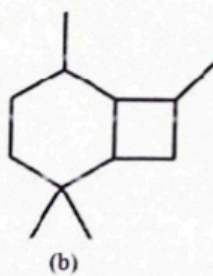
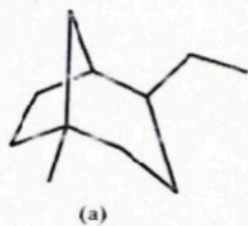
2. Draw a bond-line drawing for each of the following compounds:

- i. 3-isopropyl-2,4-dimethylpentane
- ii. 4-ethyl-2-methylhexane
- iii. 1,1,2,2-tetramethylcyclopropane

3. Draw a Newman projection of the following compound, as viewed from the angle indicated.



4. Name each of the following compounds



5. Draw a bond-line structure for each of the following compounds:

- i. 2,2,3,3-tetramethylbicyclo[2.2.1]heptane
- ii. 8,8-diethylbicyclo[3.2.1]octane
- iii. 3-isopropylbicyclo[3.2.0]heptane