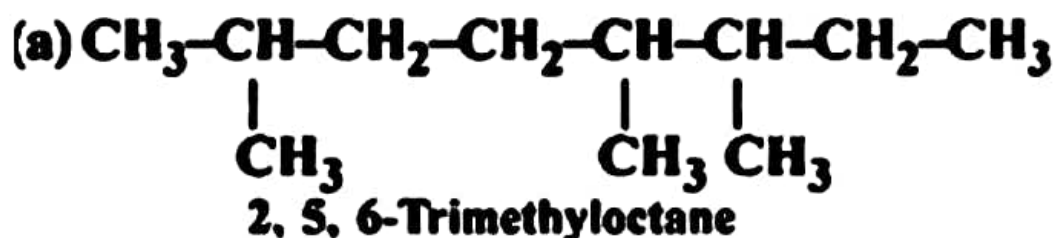
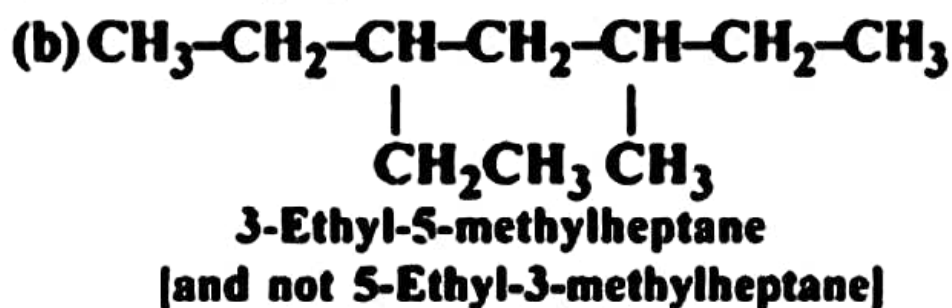


Q) Structures and IUPAC names of some hydrocarbons are given below: Explain why the names given in the parentheses are incorrect:



[and not 3, 4, 7-Trimethylocatane]



Ans)

(a) Sum of the locant = 2 + 5 + 6 = 13 Sum of the locant = 3 + 4 + 7 = 14 Lowest locant number 2, 5, 6 is lower than 3, 4, 7

(b) Substituents are in equivalent position, therefore lower number is given to the one that comes first in the name according to alphabetic order.