

IUPAC Nomenclatures

Question1

The IUPAC name of the given organic compound is



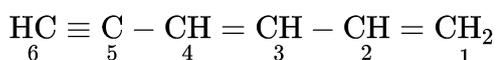
KCET 2025

Options:

- A. Hexa - 1 - yn - 3,5 - diene
- B. Hexa - 5 - yn - 1,3 - diene
- C. Hexa -1,3 - dien - 5 - yne
- D. Hexa - 3,5 - dien - 1 - yne

Answer: C

Solution:

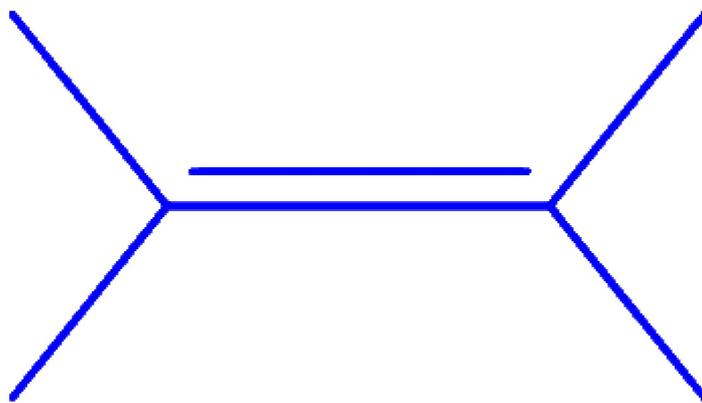


Double bond is given preference over triple bond.

Question2

IUPAC name of the compound is





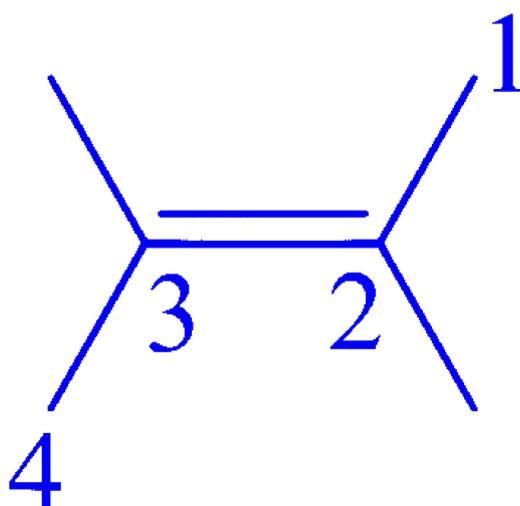
KCET 2023

Options:

- A. 2, 3-dimethylbut-2-ene
- B. 2, 3-dimethyl butyne
- C. 1, 1, 2, 2-tetra methyl ethene
- D. 2, 3-dimethyl butene

Answer: A

Solution:



The IUPAC name of the compounds is 2, 3-dimethylbut-2-ene.

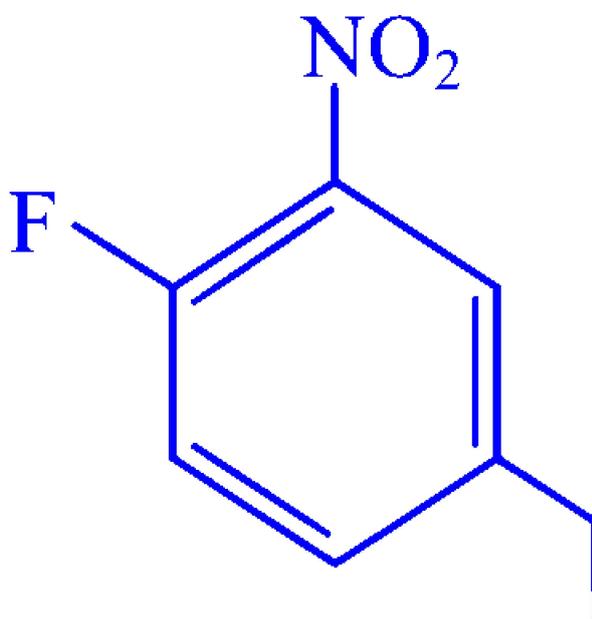


substituent, in this case, the ketone group, the lowest possible number. The ketone is on the fourth carbon, so it will be indicated with "4-oxo."

Therefore, the correct IUPAC name for the compound is "4-oxopentanoic acid," which corresponds to Option C. Options A, B, and D do not correctly prioritize the functional groups nor do they name the compound with proper numbering and suffixes based on IUPAC rules.

Question4

The correct IUPAC name of



KCET 2021

Options:

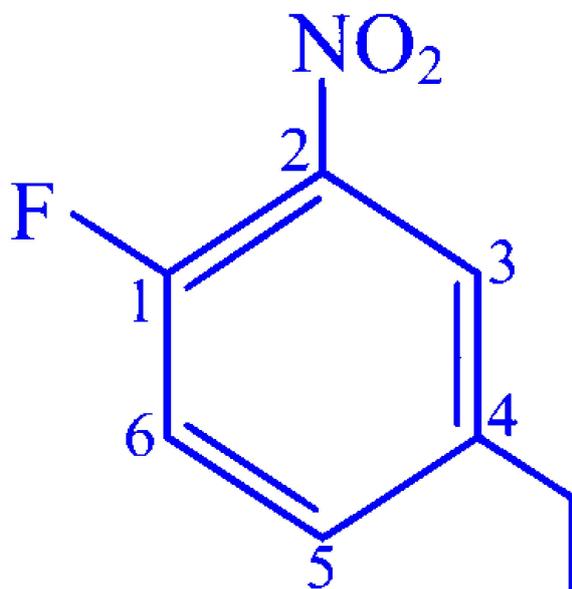
- A. 4-ethyl-1-fluoro-2-nitrobenzene
- B. 1-ethyl-4-fluoro-3-nitrobenzene
- C. 3-ethyl-6-fluoronitrobenzene
- D. 5-ethyl-2-fluoronitrobenzene

Answer: A



Solution:

The IUPAC name of



is 4-ethyl-1-fluoro-2-nitrobenzene.

Note Numbering of benzene ring is as per lowest locant sum rule.

