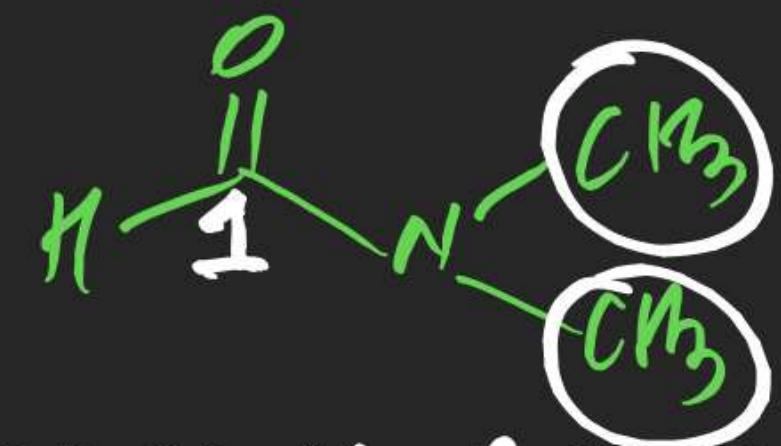


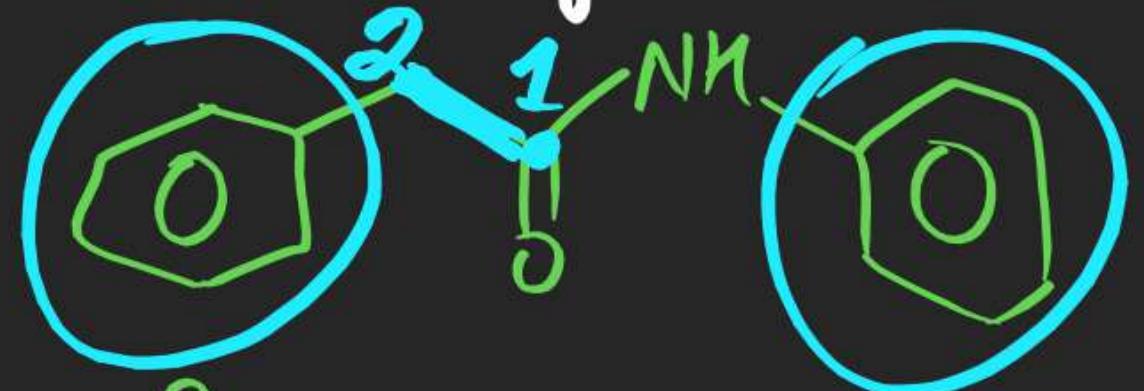
(158)



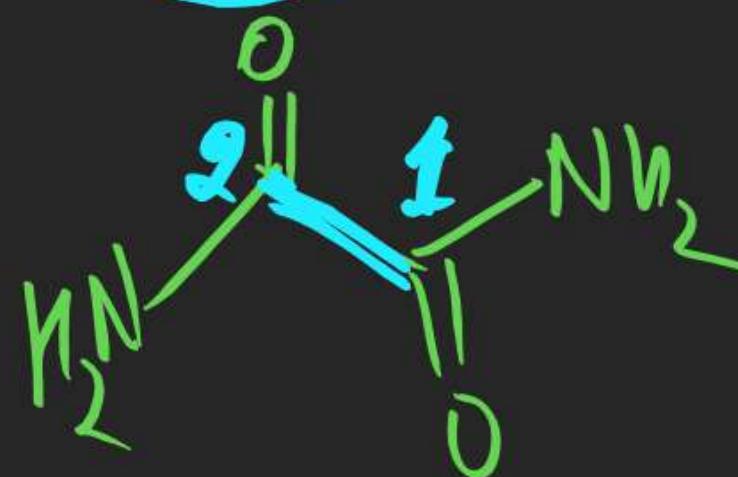
Dmf (Di methyl formamide)

N,N-Di Methyl Methanamide

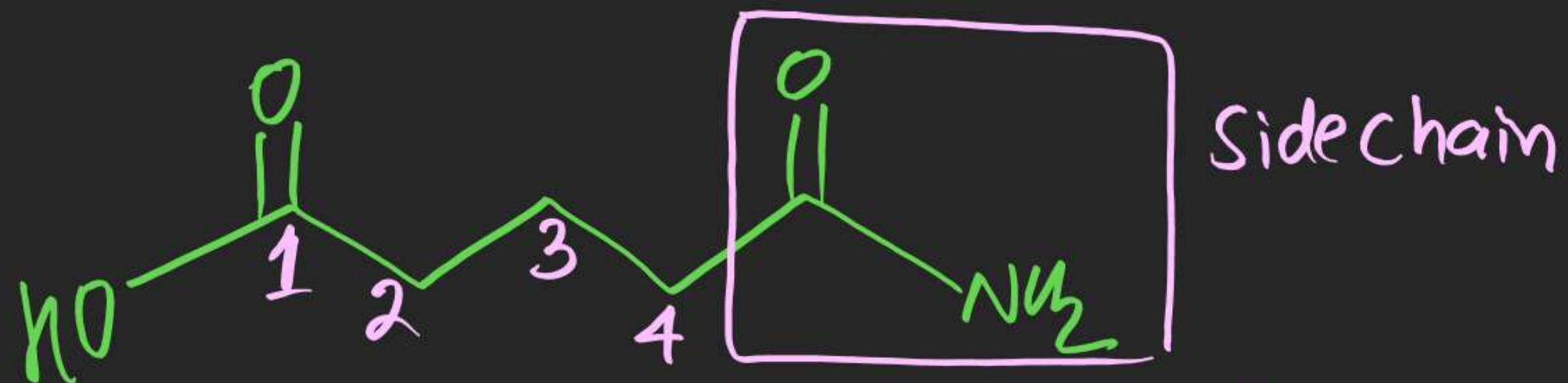
(159)

*N,N'-Biphenyl-2,2'-diimide*

(160)

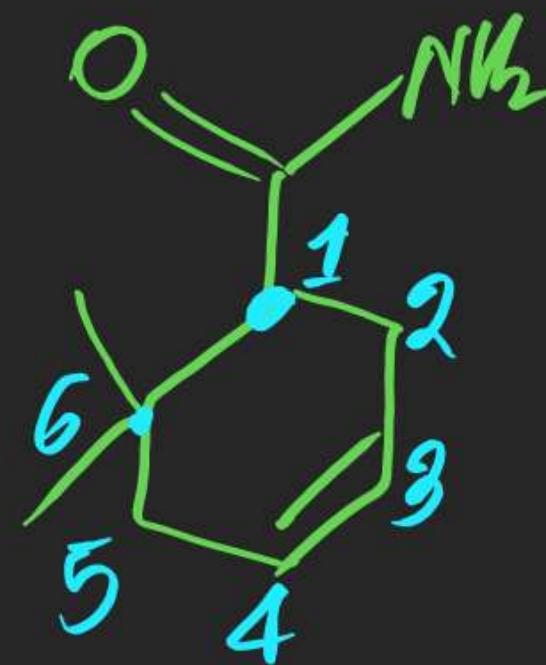
*Ethandiamide*

(166)



4-Carbamoyl Butanoic Acid

(167)



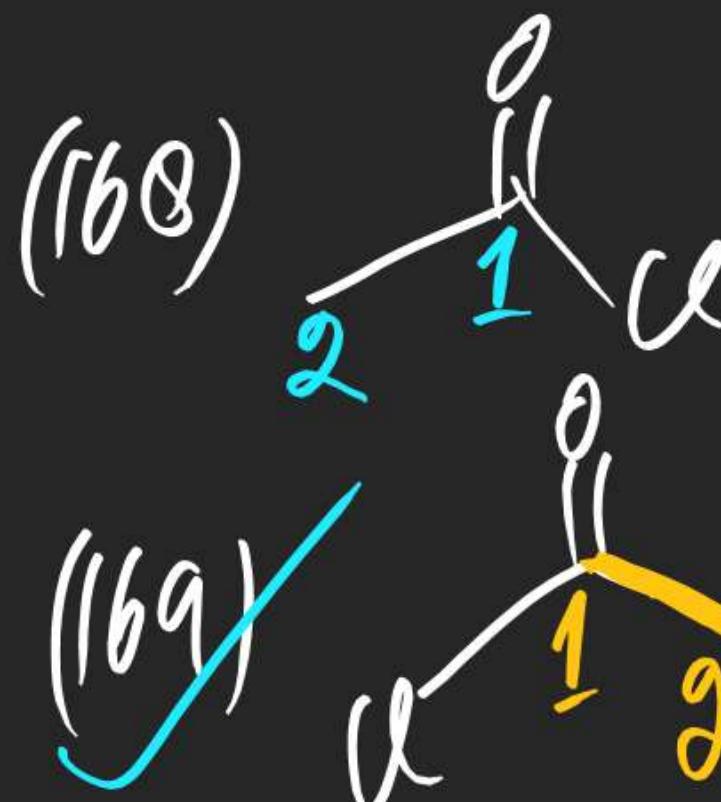
6,6-Dimethyl Cyclohex-3-ene Carboxamide.

(#) Naming of Acid halide:



Prefix: Halo Carbonyl

Suffix: Oyl halide
or Carbonyl halide



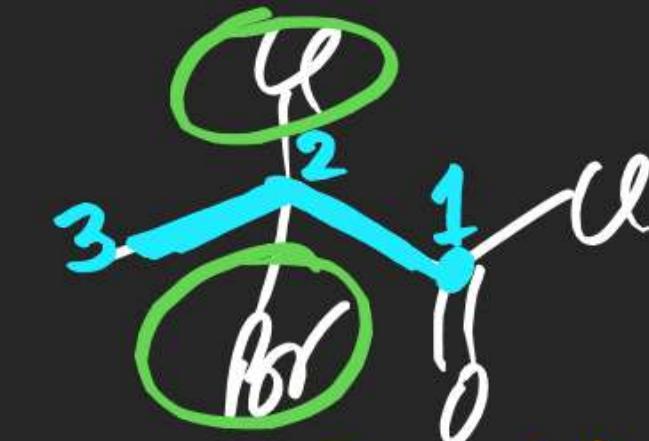
Ethanoyl chloride

(169)

BY

α -Bromo Ethanoyl chloride

(170)



2-Bromo-2-chloro Propanoyl chloride

(171)

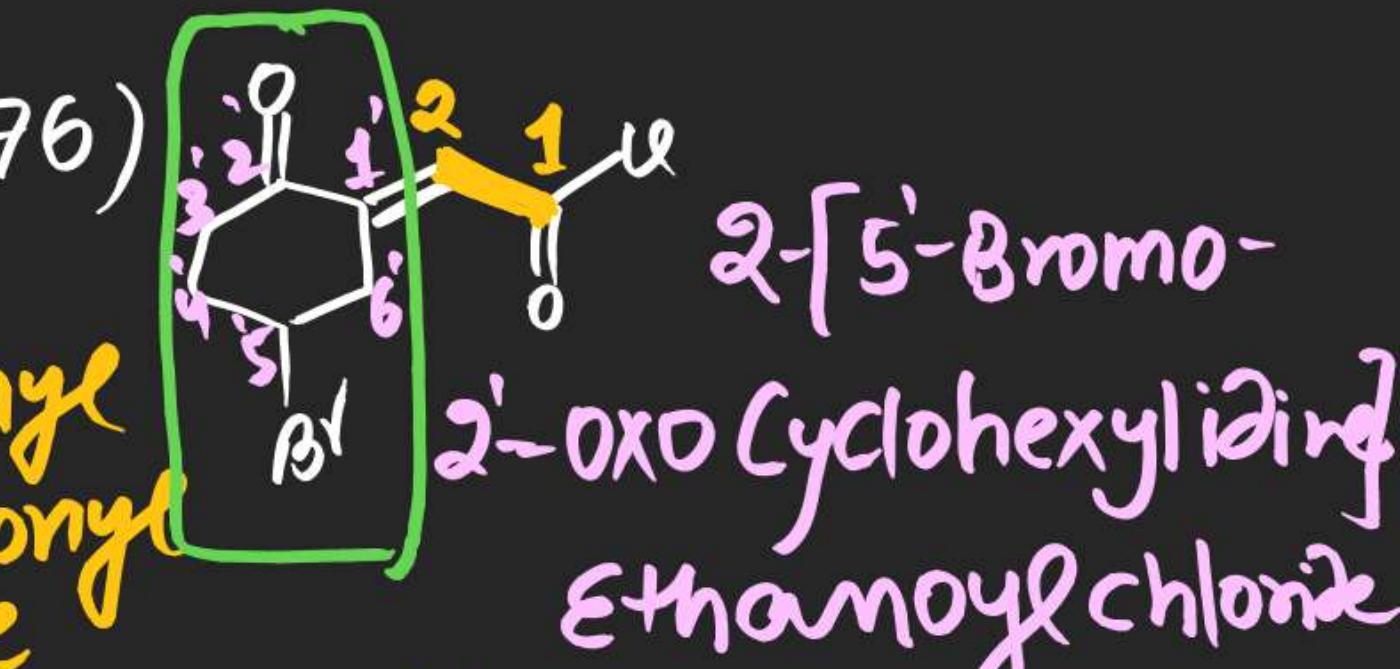
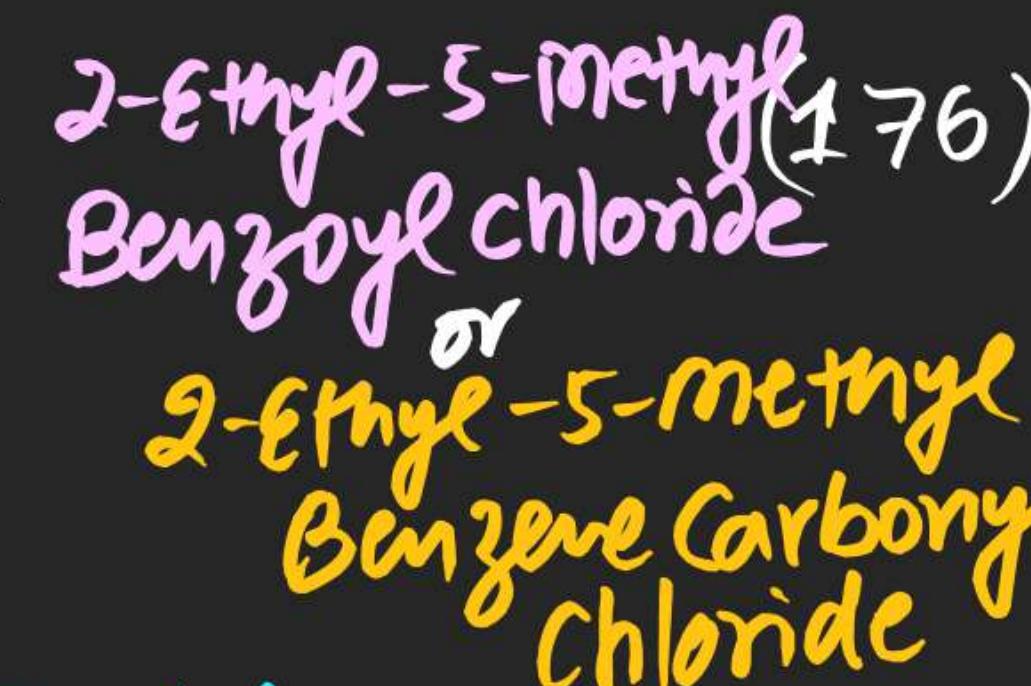
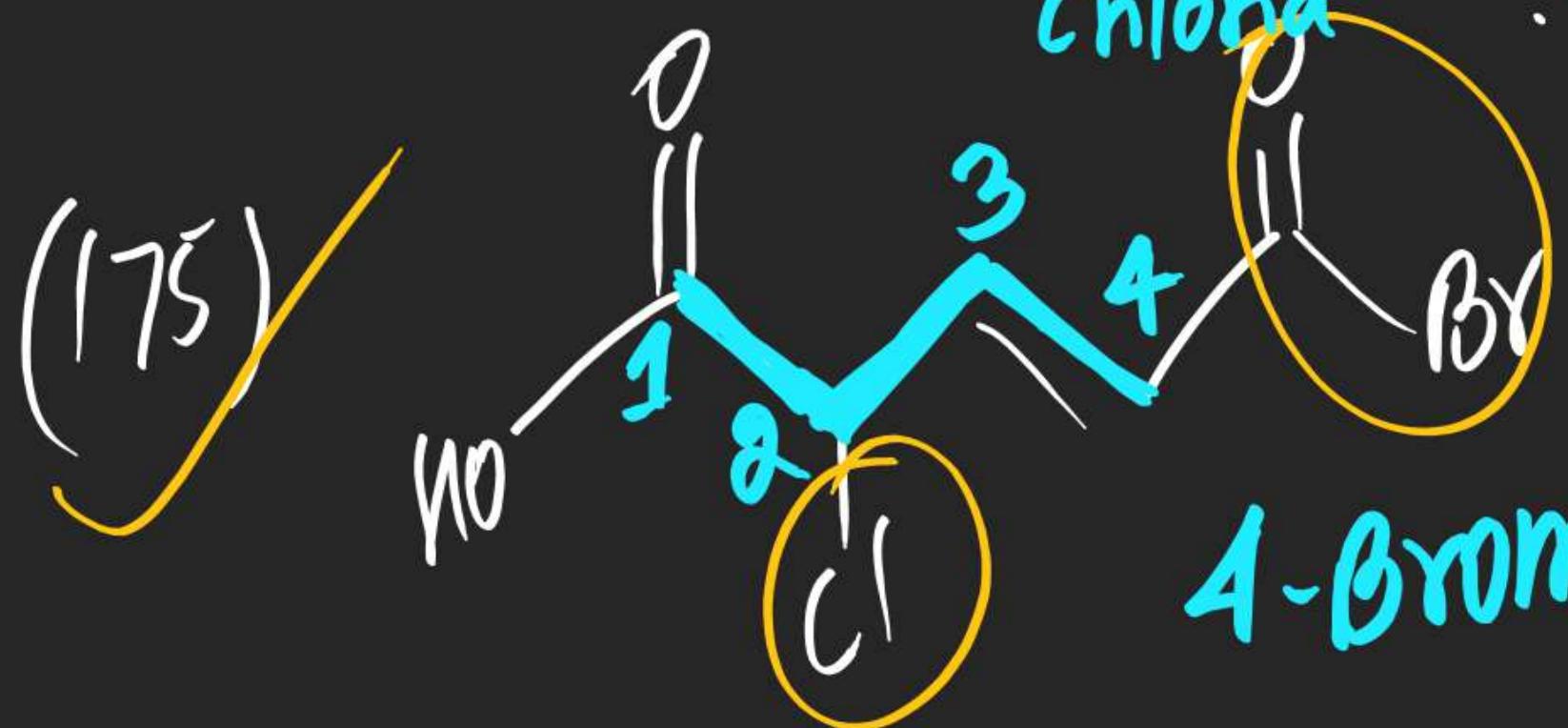
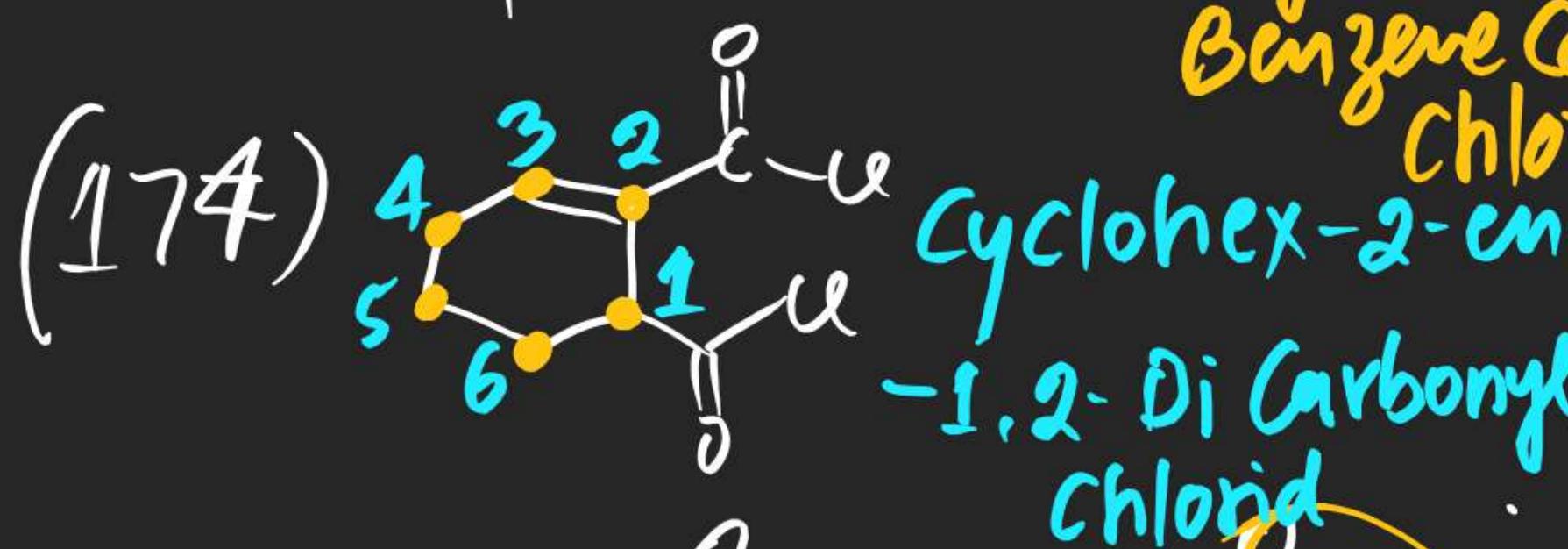
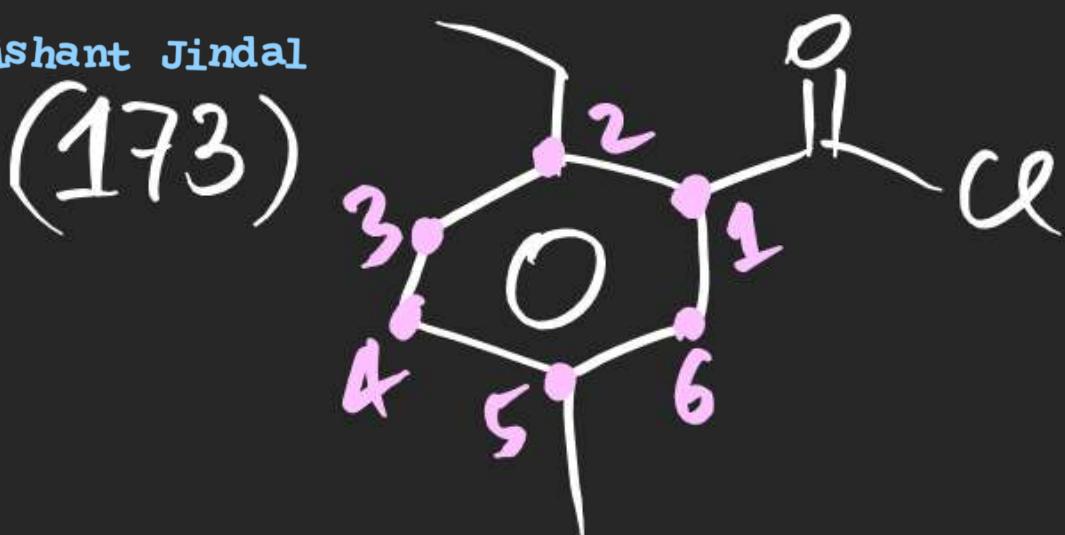


4-chloro
3-oxo
Butanoyl
chloride

(172)



Ethanedioyl chloride



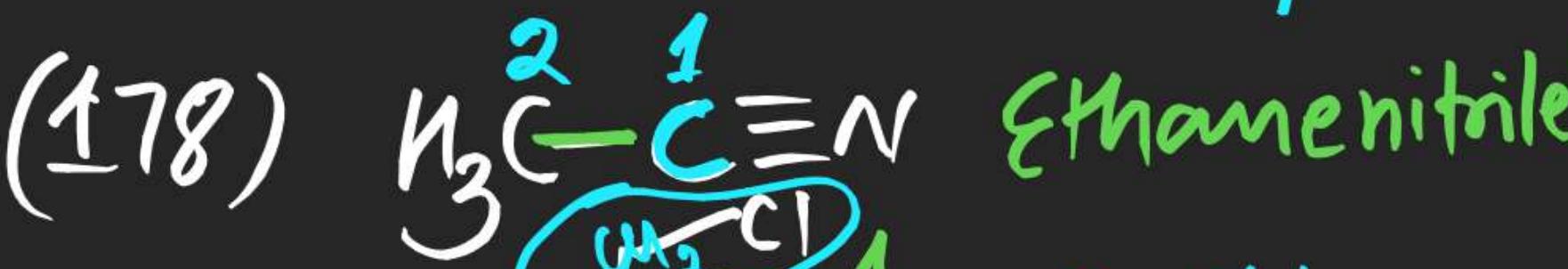
(#) Naming of Cynide



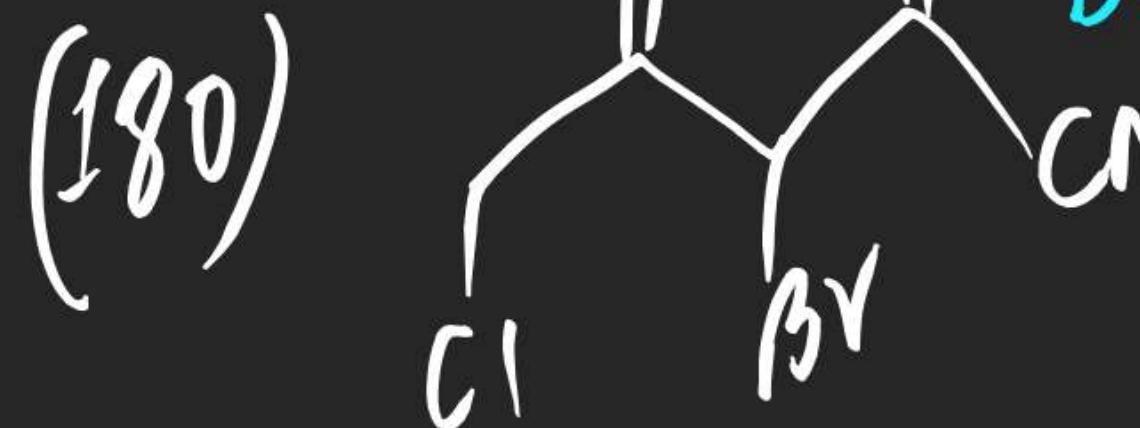
Prefix
cyno

Suffix

nitrile | carbonitrile



(181)



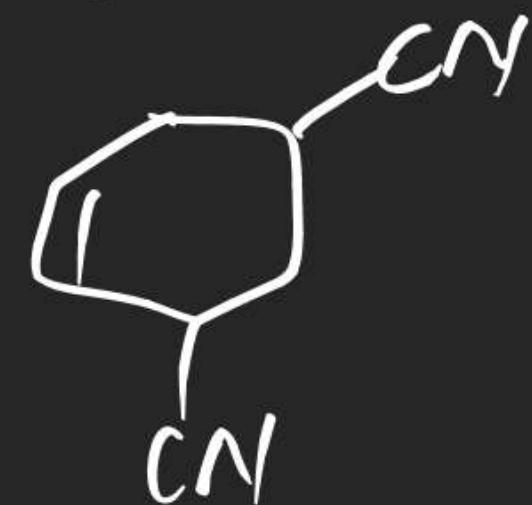
(182)



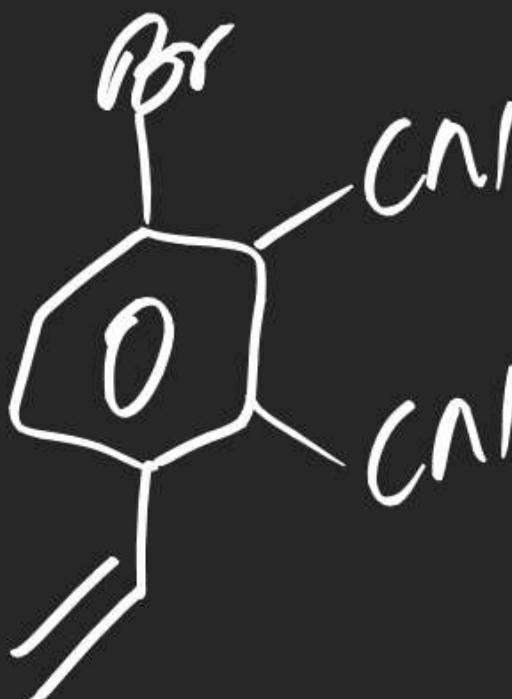
(103)



(104)



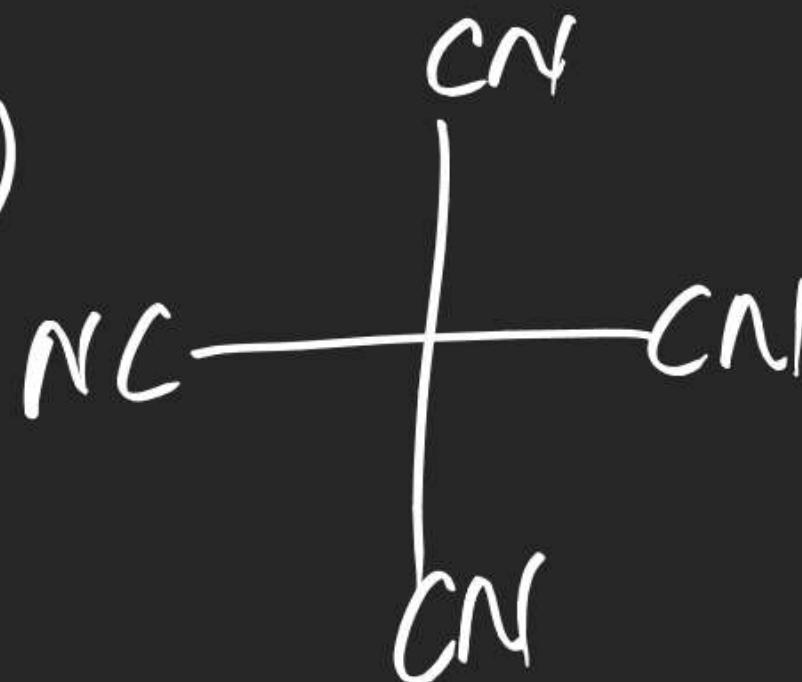
(105)

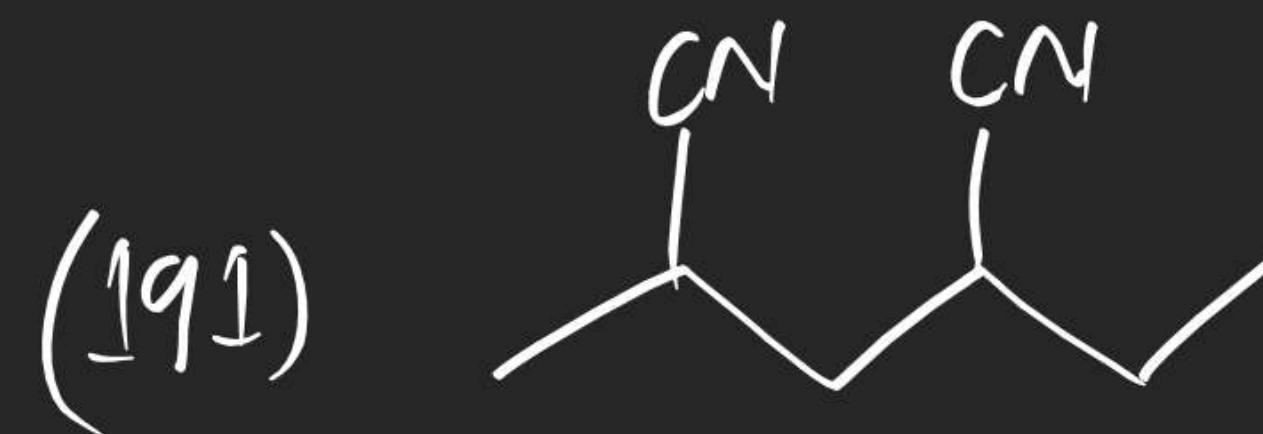
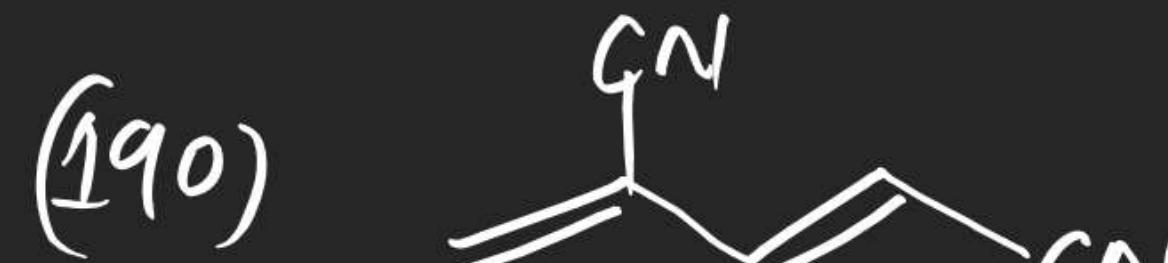
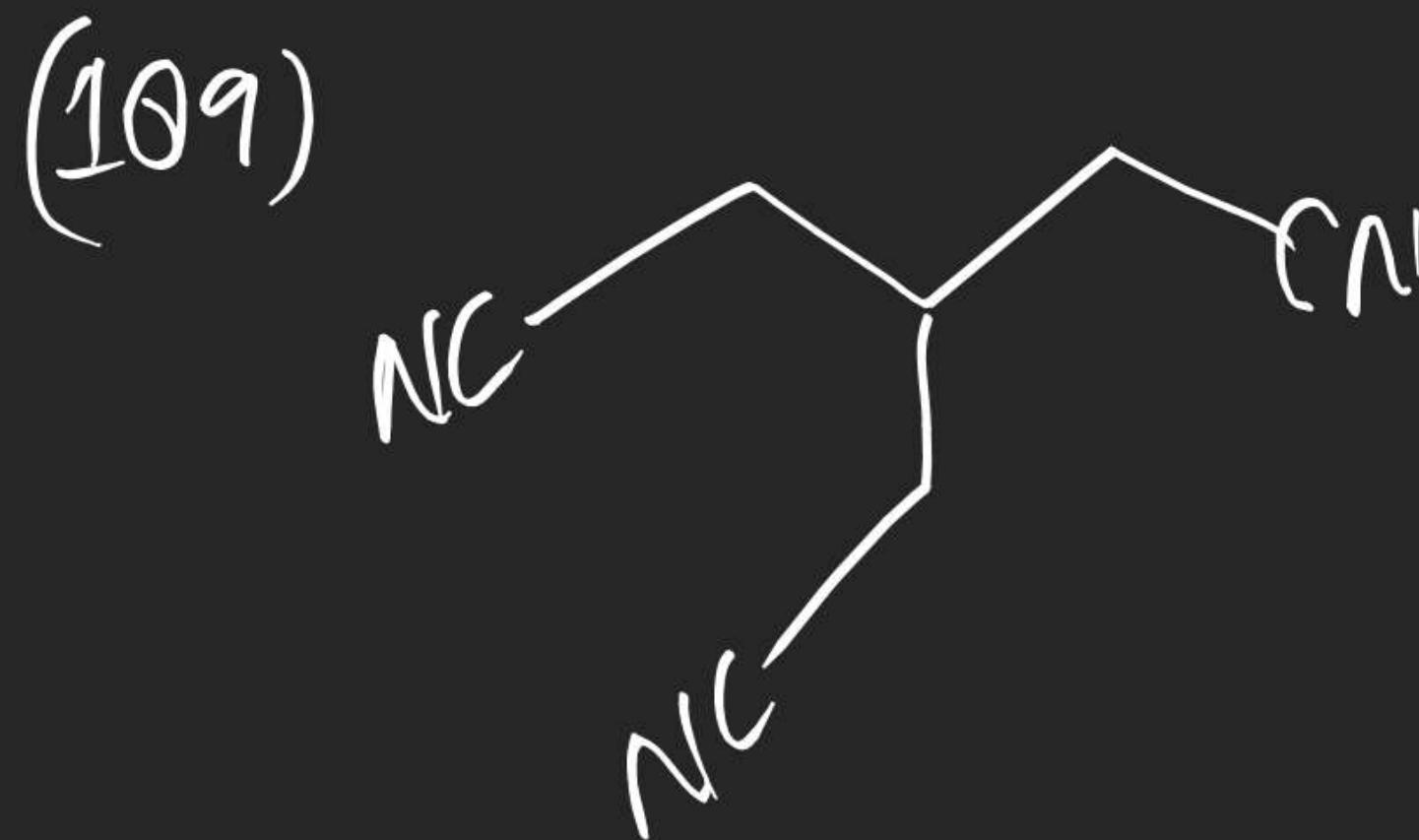
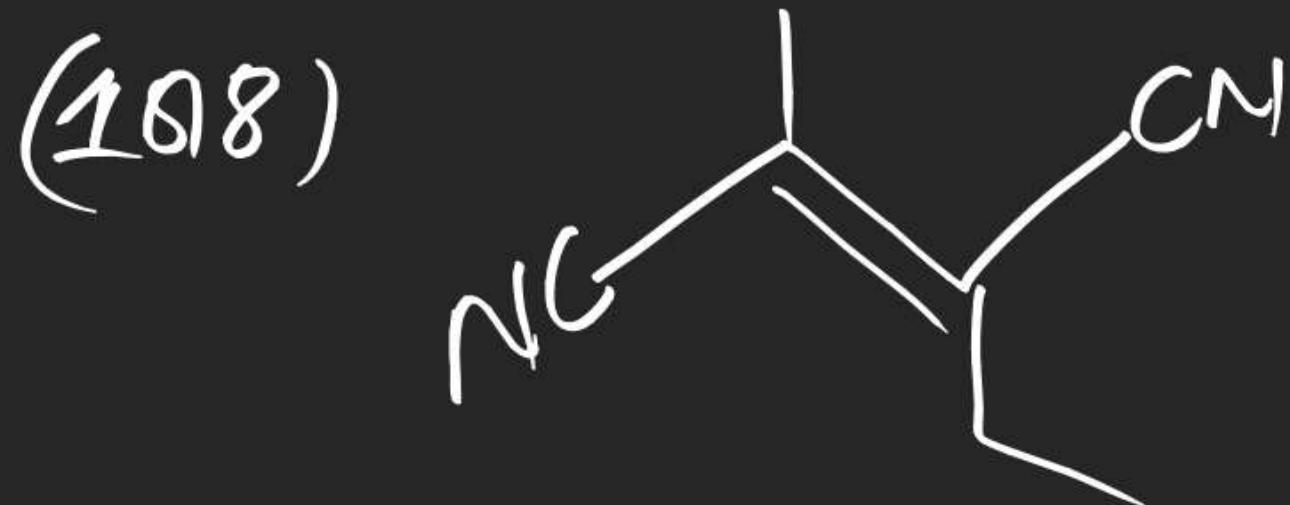


(106)

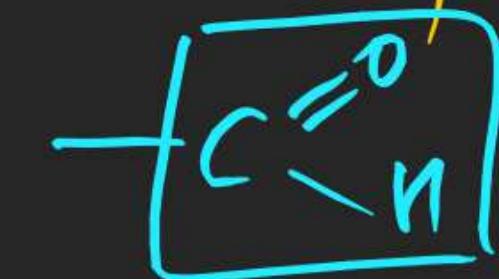


(107)





(#) Aldehyde: $(-\overset{\text{O}}{\underset{\text{H}}{\text{C}}}-\text{H})$ Prefix



formyl

Suffix

Carbaldehyde

OXO

al



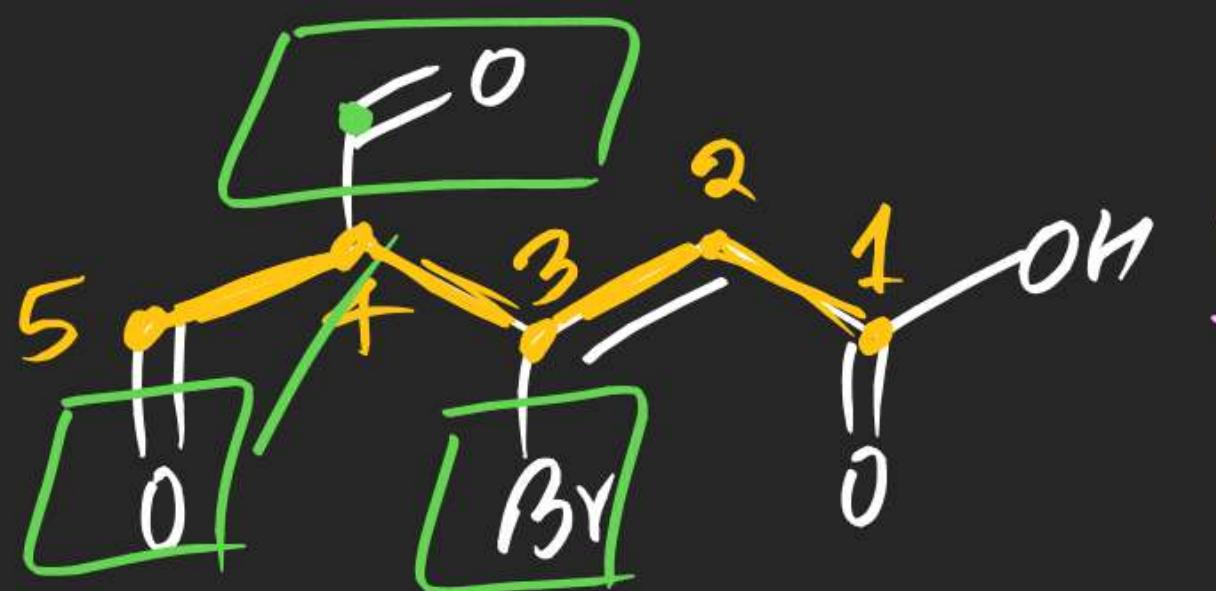
(195)



(196)



(197) ✓

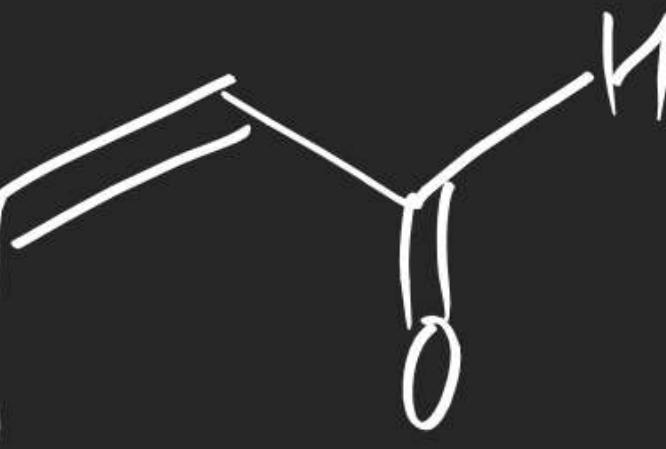


3-Bromo-4-formyl
-5-oxo pent-2-enoic Acid

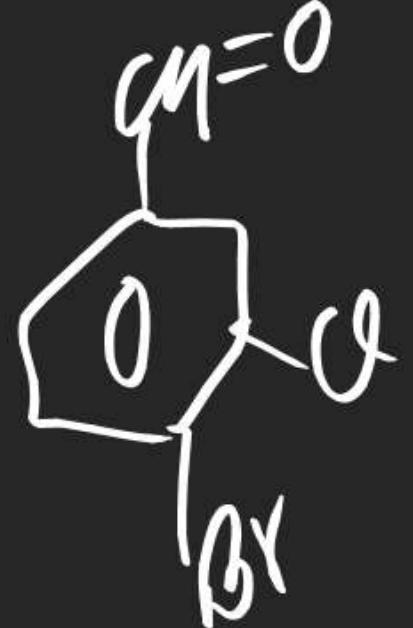
(198)



(200)



(199)



Backlog

11th

IUPAC

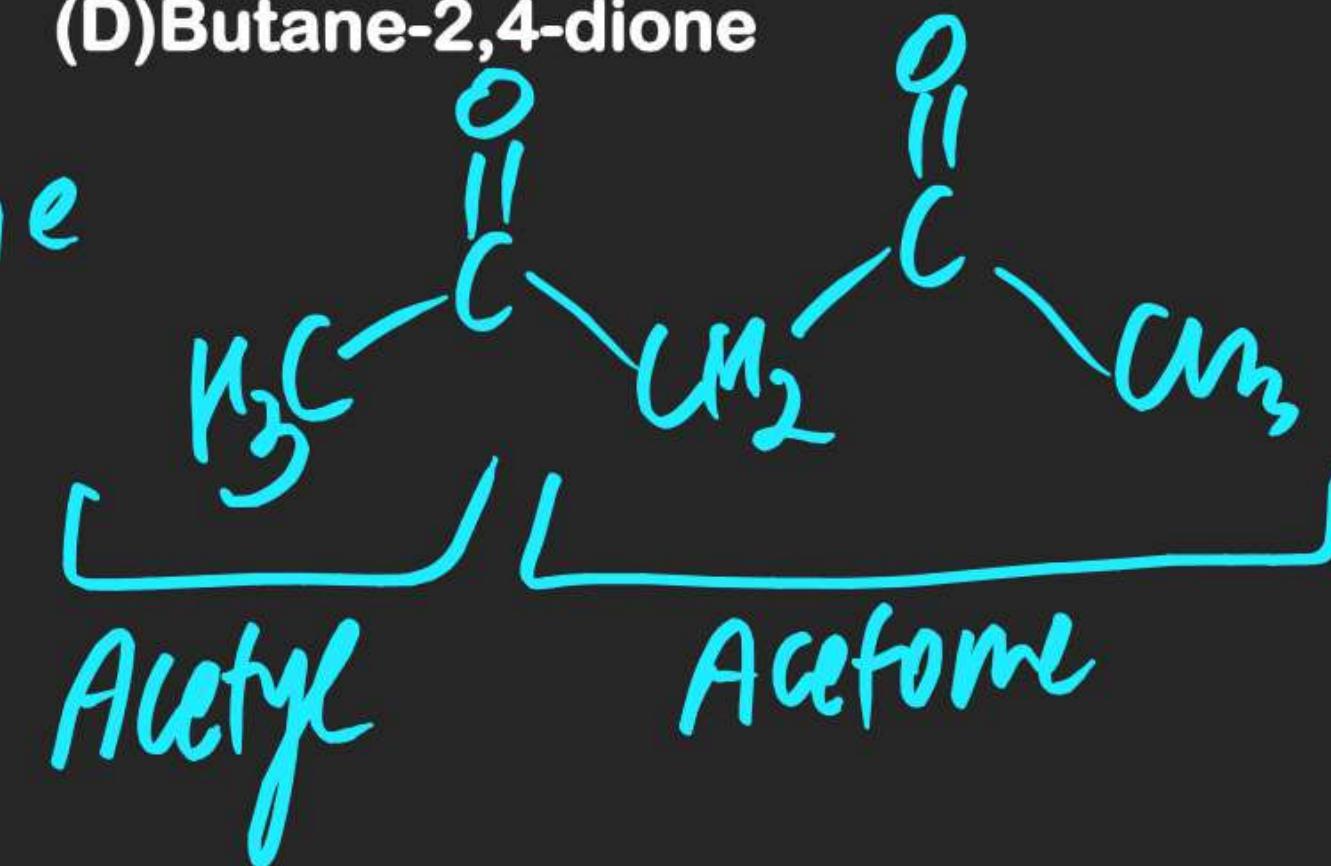
CLASSIFICATION AND NOMENCLATURE

15. The IUPAC name of acetyl acetone is:

- (A) Pentane-2,5-dione
- (B) Pentane-2,4-dione
- (C) Hexane-2,4-dione
- (D) Butane-2,4-dione

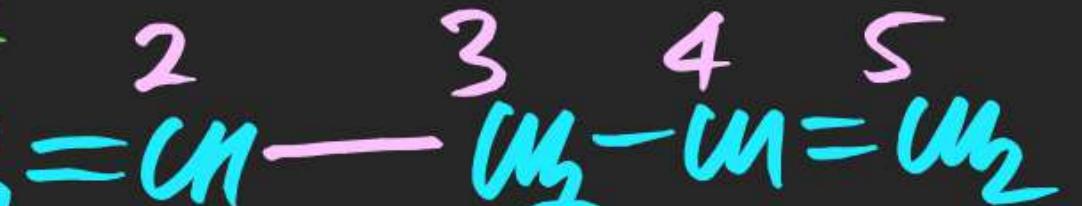
Solⁿ:

Acetyl Acetone





double



Conjugated double Bond

Isolated double Bond

Penta-1,4-diene

methyl



Ethyel



Vinyl



Allyle



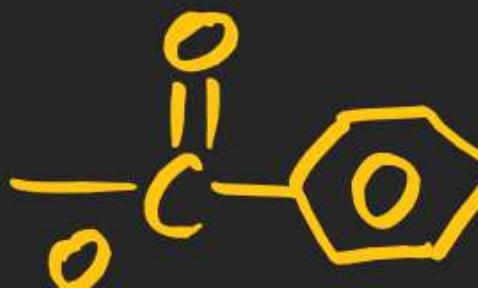
Phenyl



Benzyl



Benzoyle



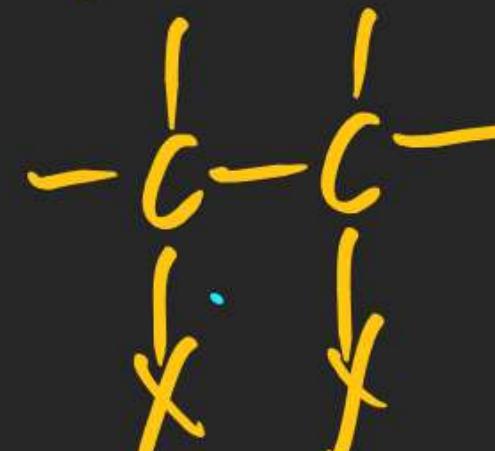
Acetyl



geminal (gem)

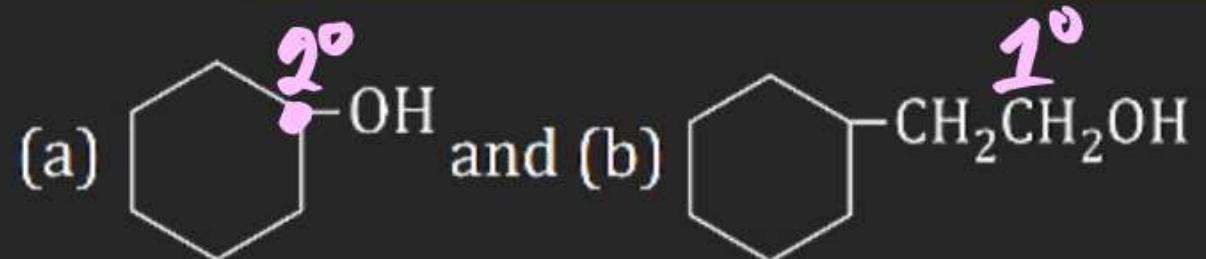


vicinal (Vic)



CLASSIFICATION AND NOMENCLATURE

17.

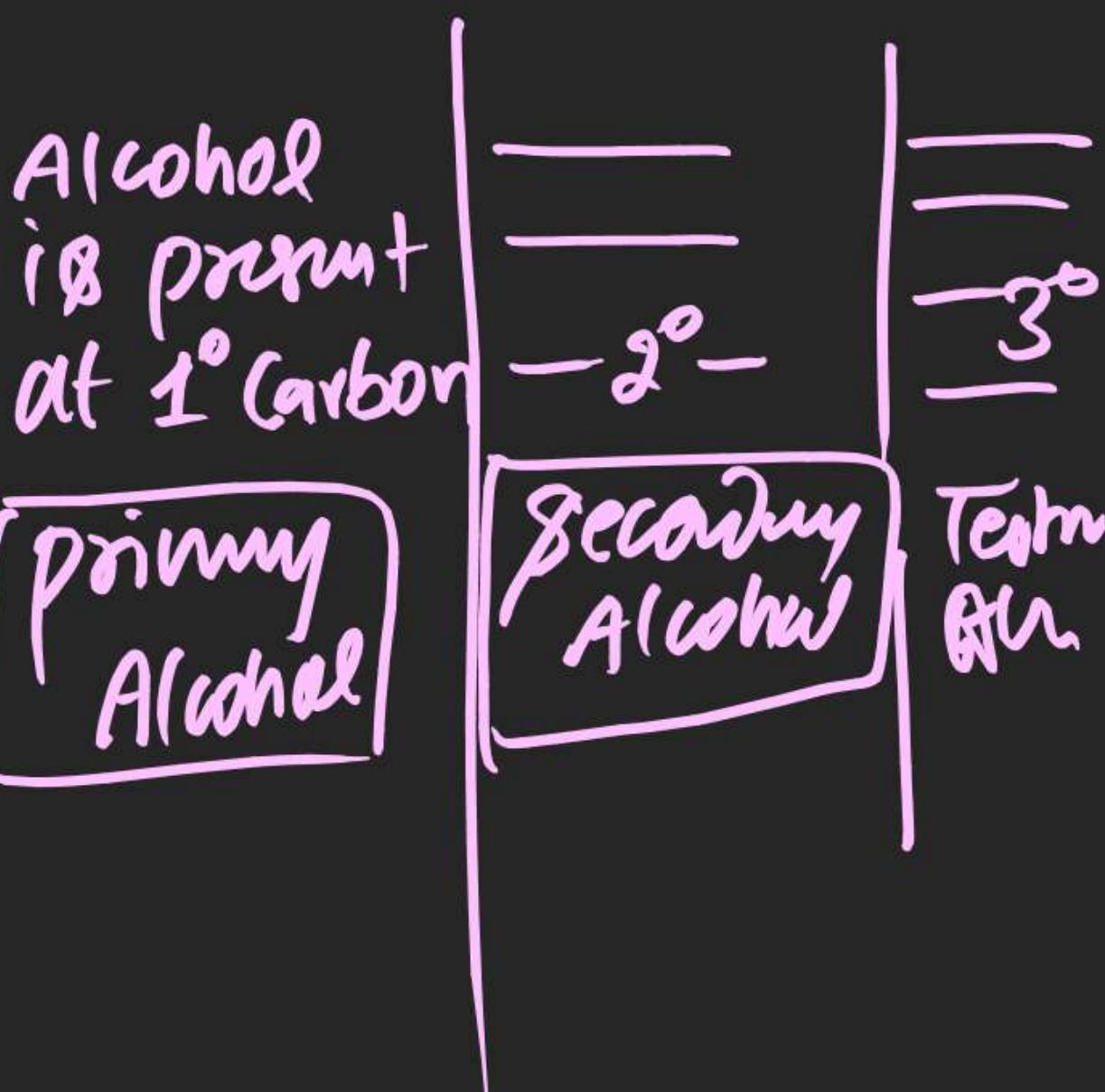


True statement for the above compounds is:

- (A) (a) is phenol while (b) is alcohol
- (B) Both (a) and (b) are primary alcohol
- (C) (a) is primary and (b) is secondary alcohol
- (D) (a) is secondary and (b) is primary alcohol

Alcohol
is present
at 1° carbon

**Primary
Alcohol**

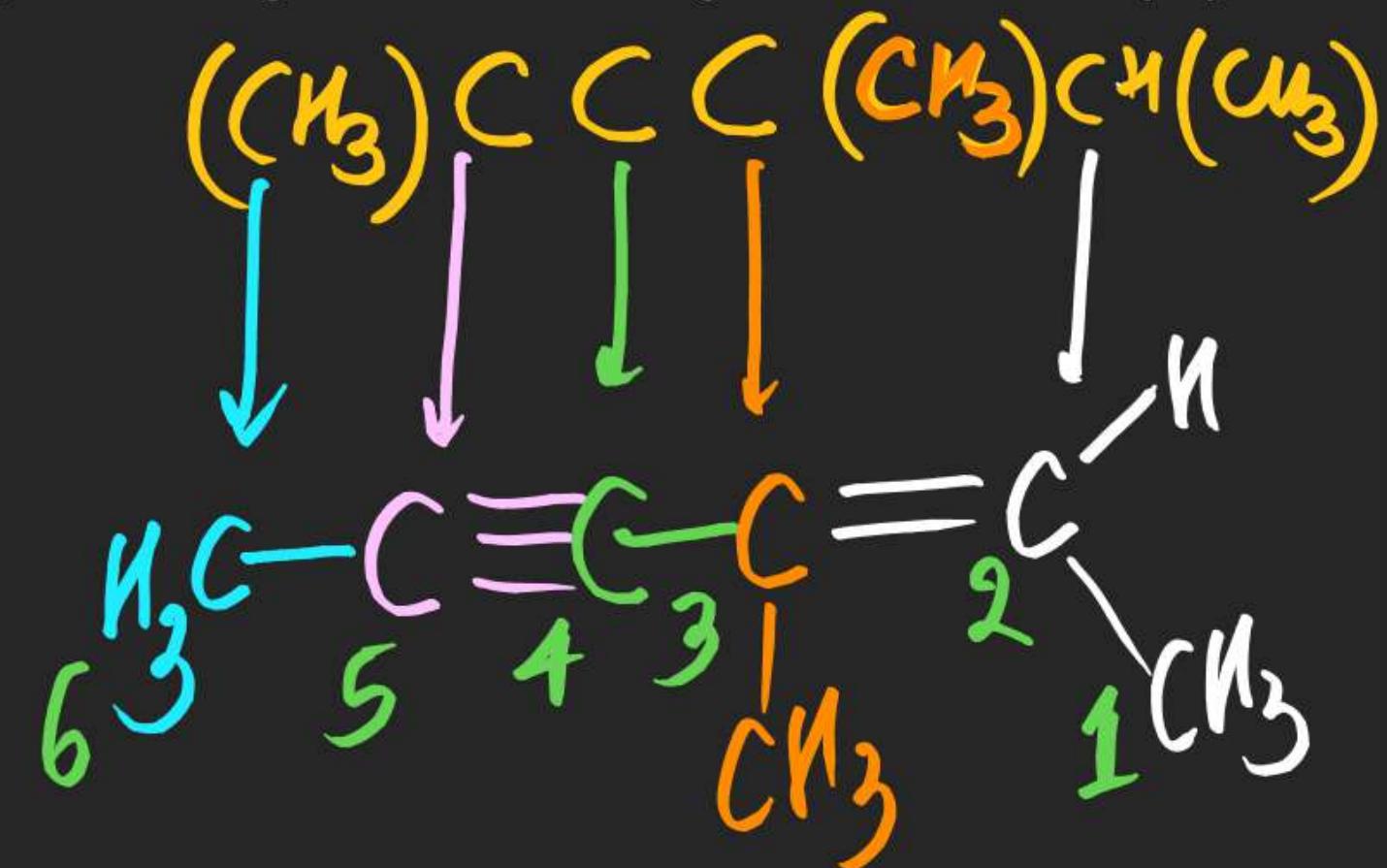


Ter
ti
ary

CLASSIFICATION AND NOMENCLATURE

18. The IUPAC name of the following structure $(\text{CH}_3)_2\text{C}=\text{C}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{CH}_3$ is:
- (A) 3-Methylhex-4-yn-2-ene
 - (B) 3-Methylhex-2-en-4-yne
 - (C) 4-Methylhex-4-en-4-yne
 - (D) all are correct

Sol'n:

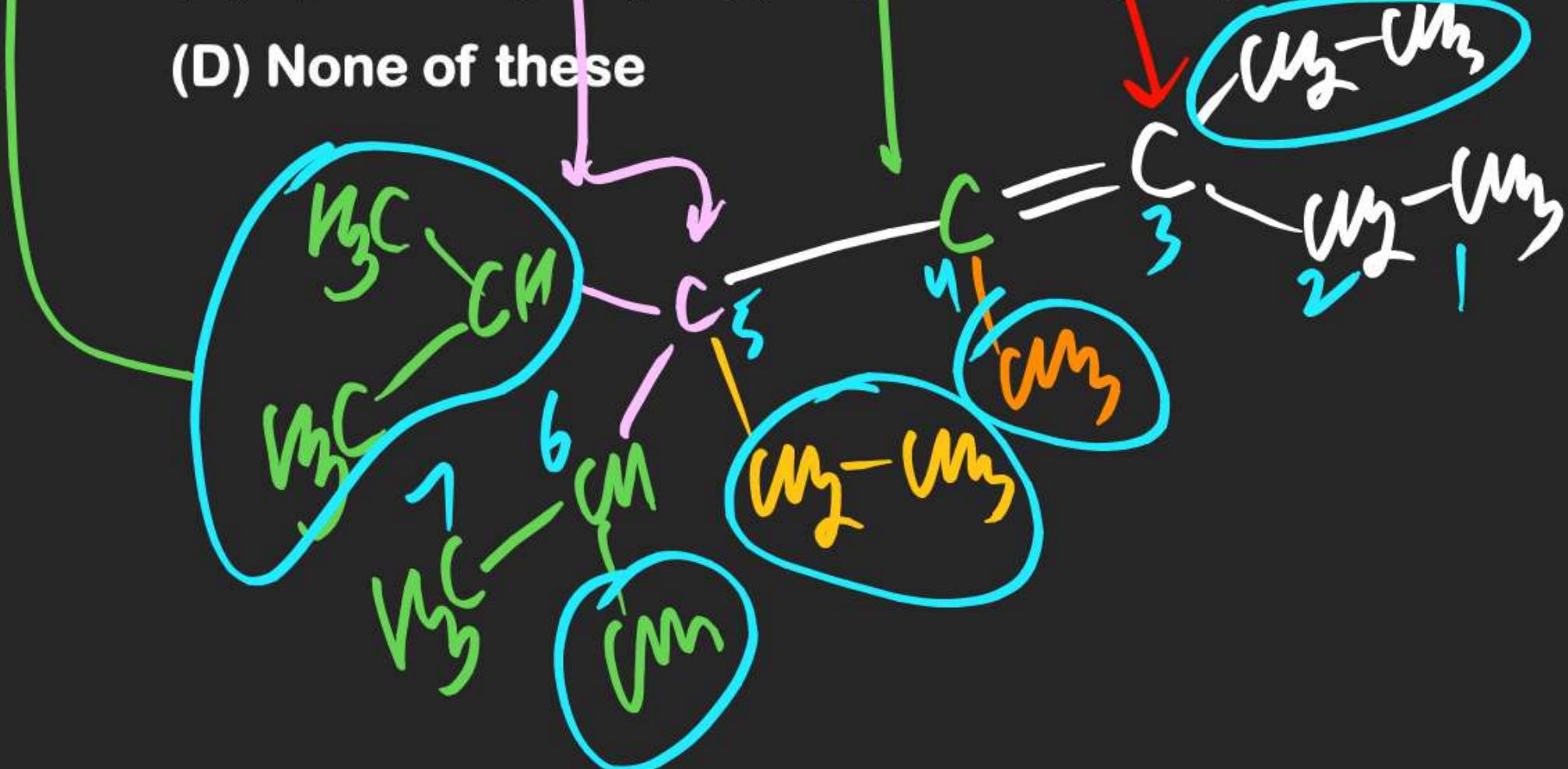


CLASSIFICATION AND NOMENCLATURE

19. The IUPAC name of the following structure is



- (A) 3,5-Diethyl-4,6-dimethyl-5-[1-methylethyl] hept-3-ene
- (B) 3,5-Diethyl-5-isopropyl-4,6-dimethylhept-2-ene
- (C) 3,5-Diethyl-5-propyl-4,6-dimethylhept-3-ene
- (D) None of these



CLASSIFICATION AND NOMENCLATURE

20. The correct IUPAC name of $\text{CH}_3 - \text{CH}_2 - \overset{\text{2}}{\underset{\text{3}}{\text{C}}}(\text{COOH})\text{CH}_2$ is:

- (A) 2-Methyl butanoic acid
- (B) 2-Ethylprop-2-enoic acid
- (C) 2-Carboxybutene
- (D) None of the above

CLASSIFICATION AND NOMENCLATURE

21. The correct IUPAC name of 2-ethylpent-3-yne is:

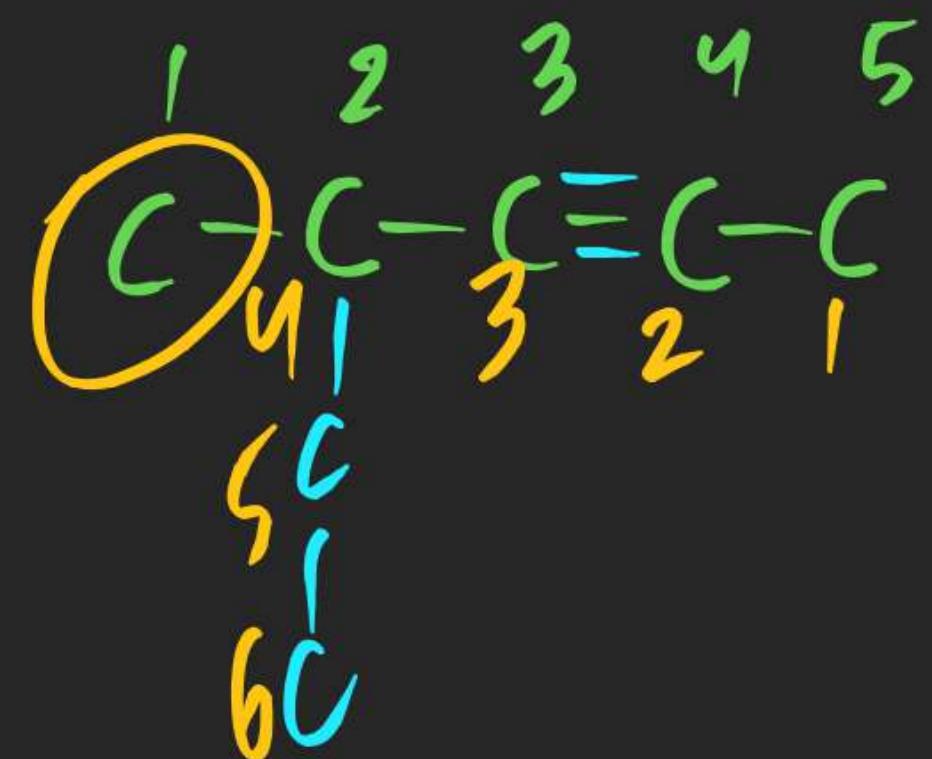
(A) 3-Methyl hex-4-yne

(B) 4-Ethyl pent-2-yne

(C) 4-methyl hex-2 yne

(D) None of these

2-Ethy~~e~~ Pent-3-yne



CLASSIFICATION AND NOMENCLATURE

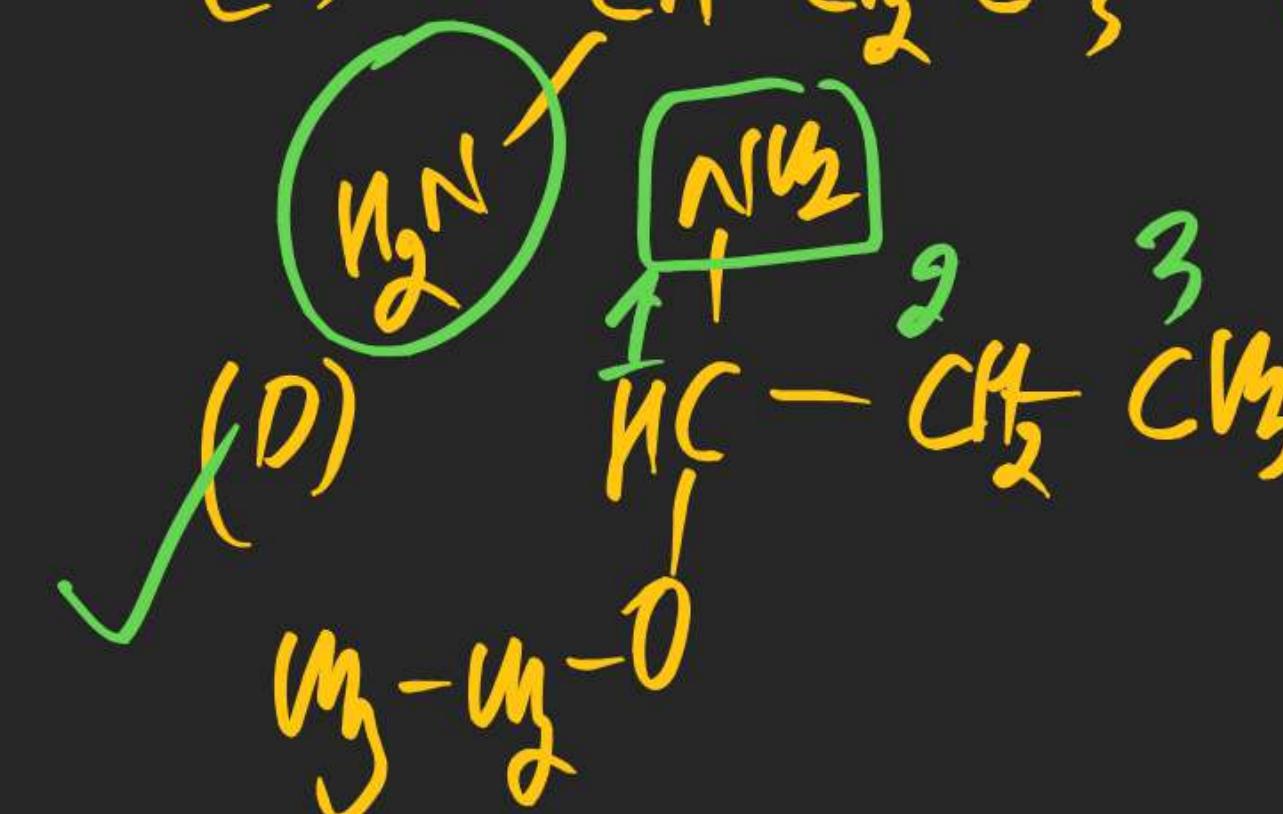
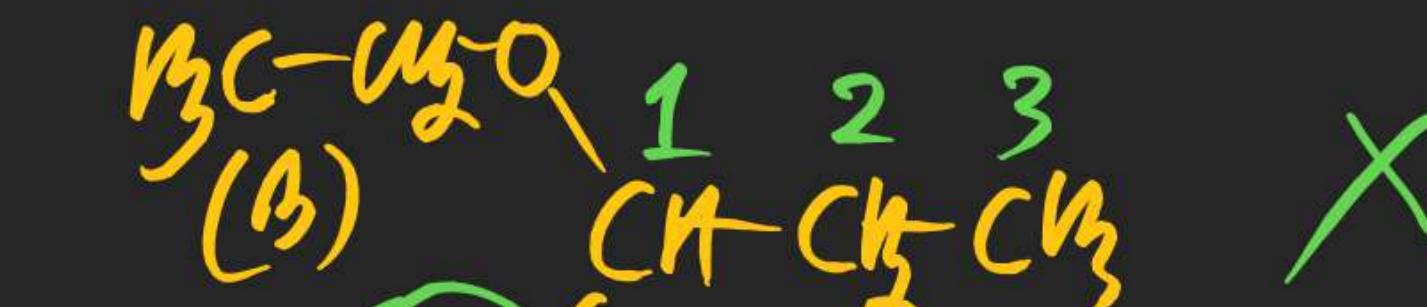
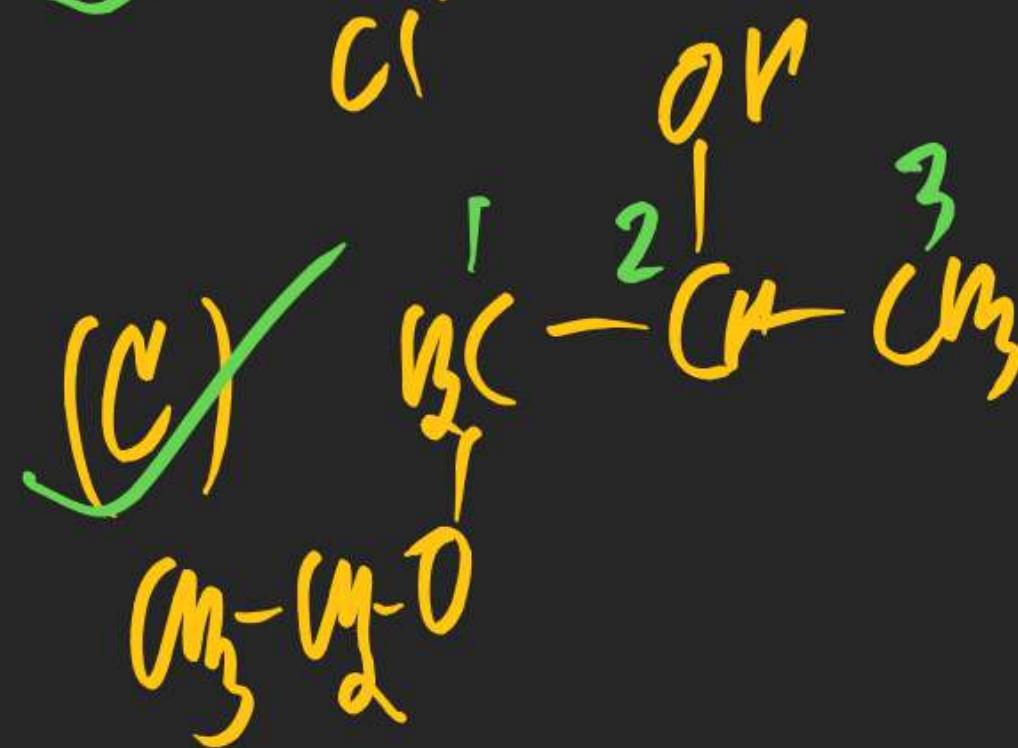
22. All the following IUPAC names are correct except:

(A) 1-Chloro-1-ethoxy propane

(B) 1-Amino-1-ethoxypropane

(C) 1-Ethoxy-2-propanol

(D) 1-Ethoxy-1-propanamine



CLASSIFICATION AND NOMENCLATURE

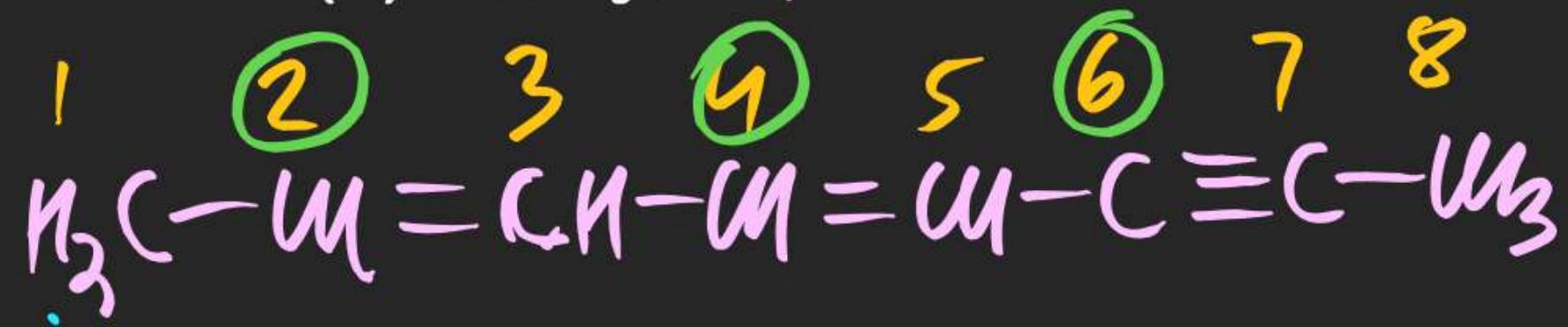
23. The IUPAC name of the compound $\text{CH}_3\text{CH} = \text{CHCH} = \text{CHC} \equiv \text{CCH}_3$ is:

(A) Octa-4,6-diene-2-yne

(B) Octa-2,4-diene-6-yne

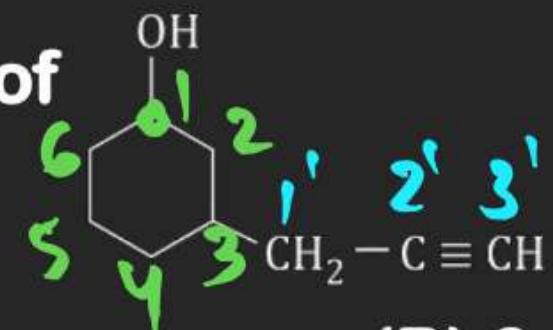
(C) Oct-2-yne-4,6-diene

(D) Oct-6-yne-2,4-diene



CLASSIFICATION AND NOMENCLATURE

24. The correct IUPAC name of



- (A) 3-Cyclohexanol Propyne
- (B) 3-[3-Hydroxy Cyclohexyl] Propyne
- (C) 3-Propynyl Cyclohexanol
- (D) 3-(2-propynyl) Cyclohexanol



CLASSIFICATION AND NOMENCLATURE

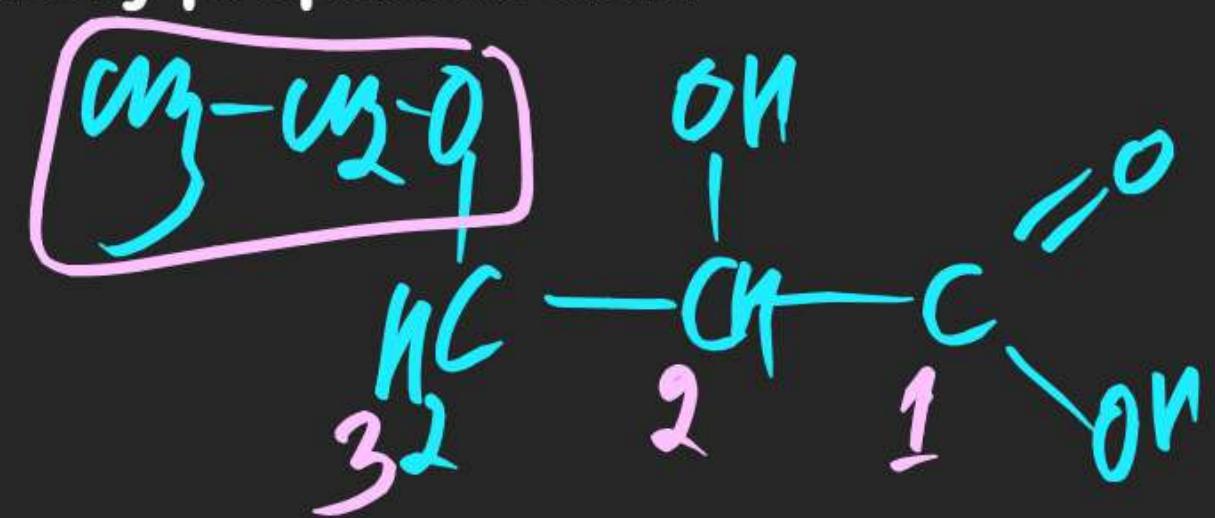
25. The IUPAC name of β -ethoxy- α -hydroxy propionic acid (trivial name) is:

(A) 1,2-Dihydroxy-1-oxo-3-ethoxy propane

(B) 1-Carboxy-2-ethoxy ethanol

(C) 3-Ethoxy-2-hydroxy propanoic acid

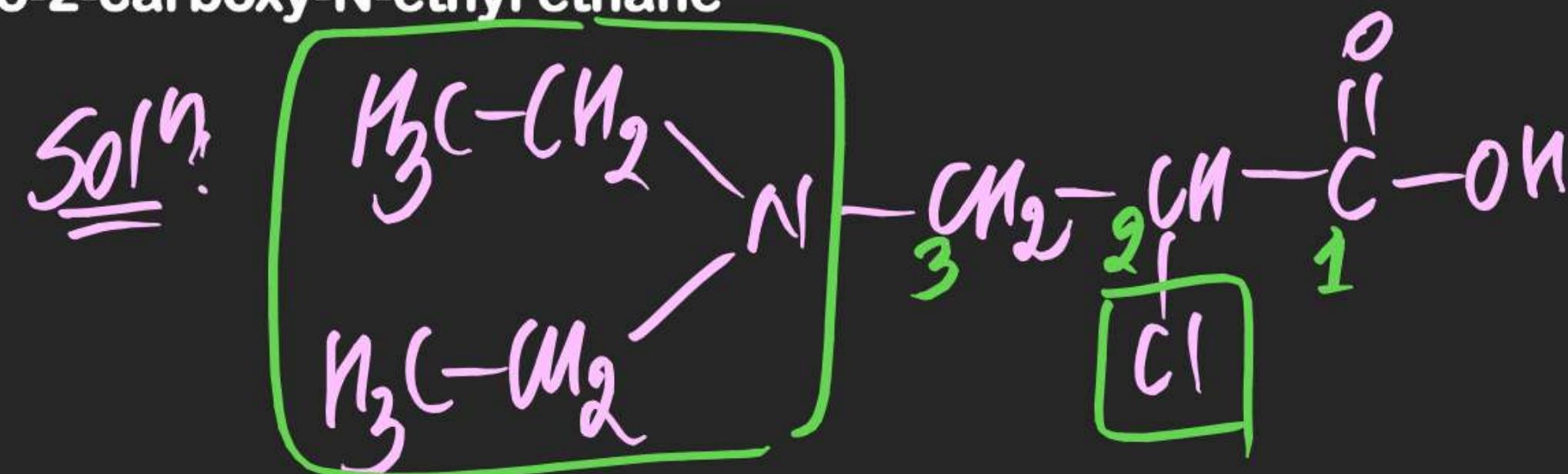
(D) All above



CLASSIFICATION AND NOMENCLATURE

29. The IUPAC name of is $\underline{(\text{C}_2\text{H}_5)_2\text{NCH}_2\text{CH}}.\text{COOH}$

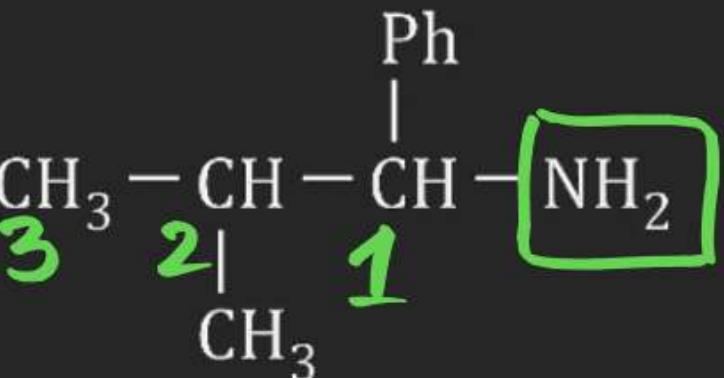
- (A) 2-Chloro-4-N-ethylpentanoic acid
- (B) 2-Chloro-3-(N,N-diethyl amino)-propanoic acid
- (C) 2-Chloro-2-oxo diethylamine
- (D) 2-Chloro-2-carboxy-N-ethyl ethane



CLASSIFICATION AND NOMENCLATURE

30.

The IUPAC name of the compound is



Boss

- (A) 1-Amino-1-phenyl-2-methyl propane
- (B) 2-Methyl-1-phenyl propan-1-amine
- (C) 2-Methyl-1-amino-1-phenyl propane
- (D) 1-Isopropyl-1-phenyl methyl amine

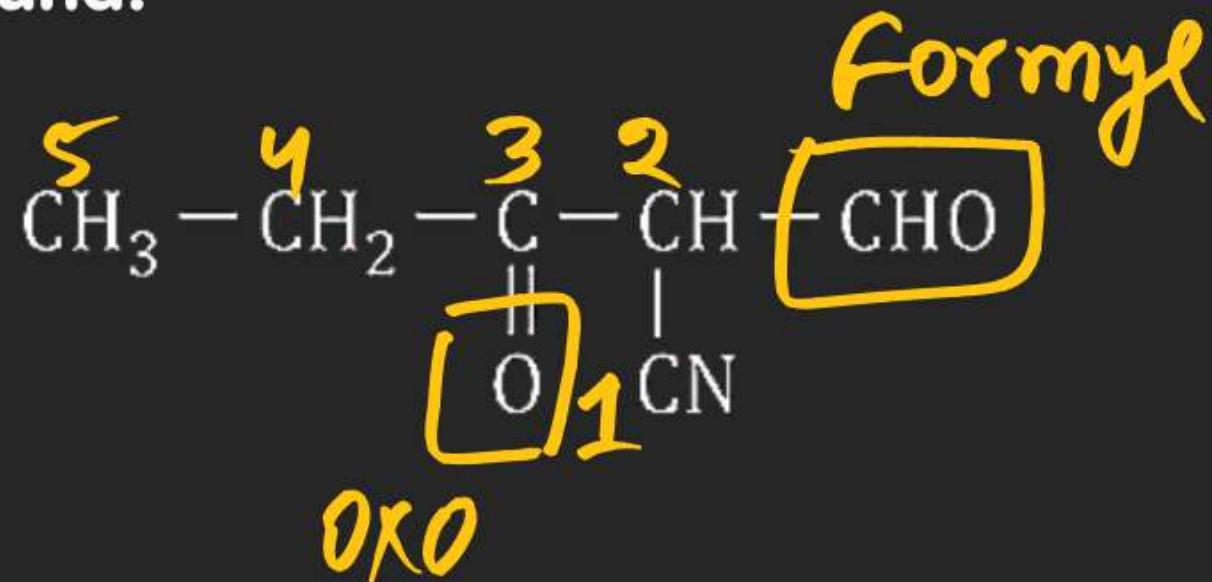


phenyl (Ph)

CLASSIFICATION AND NOMENCLATURE

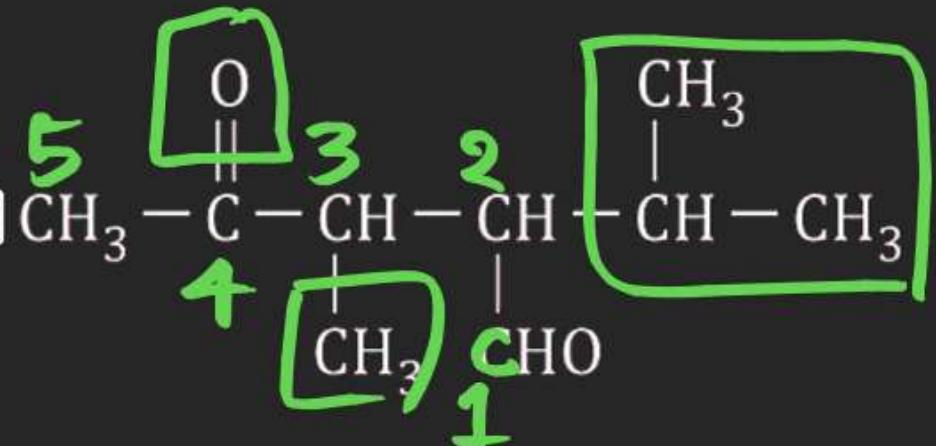
33. The correct IUPAC name of compound:

- (A) 2-Cyano-3-oxopentanal
- (B) 2-Formyl-3-oxopentanenitrile
- (C) 2-Cyanopentane-1,3-dione
- (D) 1,3-Dioxo-2-cyanopentane



CLASSIFICATION AND NOMENCLATURE

35. The IUPAC name of compound $\text{CH}_3\text{C}(\text{O})\text{CH}(\text{CH}_3)\text{CH}(\text{CHO})\text{CH}_3$ is



- (A) 3,5-Dimethyl-4-Formyl pentanone
- (B) 1-Isopropyl-2-methyl-4-oxo butanal
- (C) 2-Isopropyl-3-methyl-4-oxo pentanal
- (D) None of the above

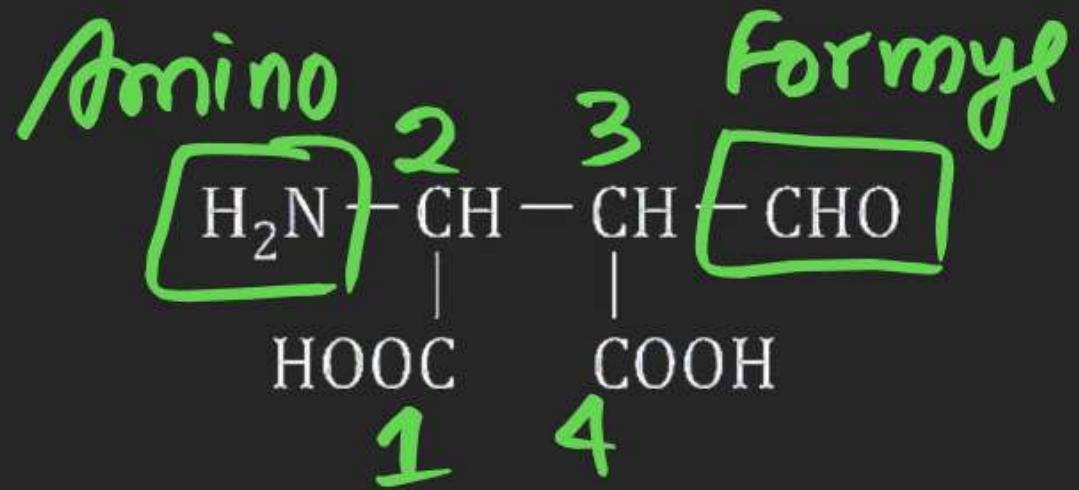
Cinnamic Acid



CLASSIFICATION AND NOMENCLATURE

37. The IUPAC name of the structure is:

- (A) 3-Amino-2-formyl butane-1, 4-dioic acid
- (B) 3-Amino-2,3-dicarboxy propanal
- (C) 2-Amino-3-formyl butane-1, 4-dioic acid
- (D) 1-Amino-2-formyl succinic acid



CLASSIFICATION AND NOMENCLATURE

38. One among the following is the correct IUPAC name of the compound

- (A) N-Formyl aminoethane
- (B) N-Ethyl formyl amine
- (C) N-Ethyl methanamide
- (D) Ethylamino methanal

