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VIDYAPEETH

BATCH CODE: 19-PJ301EA 2025

SUBJECT NAME: CHEMISTRY

CHAPTER NAME:

Organic chemistry IUPAC Nomenclature

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Lecture No. 04

By – Swapnil Sir

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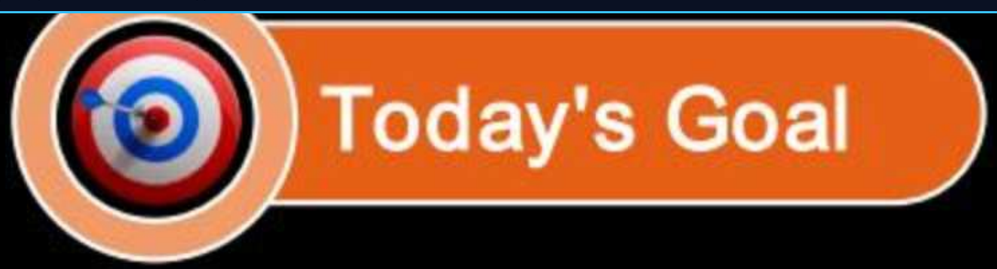

Subtopic

I.U.P.A.C. Nomenclature

{Polyfunctional groups}

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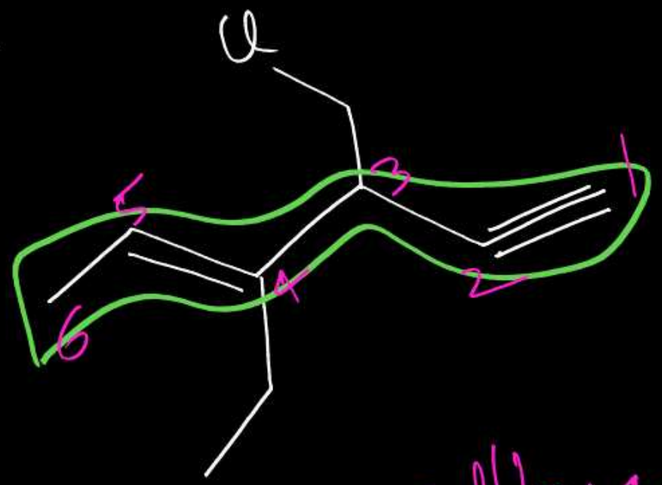

3-Chloromethyl-4-ethylHex-4-ene-1-yne

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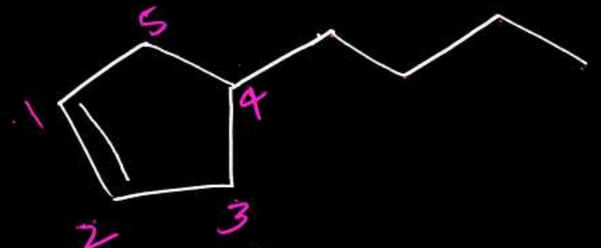
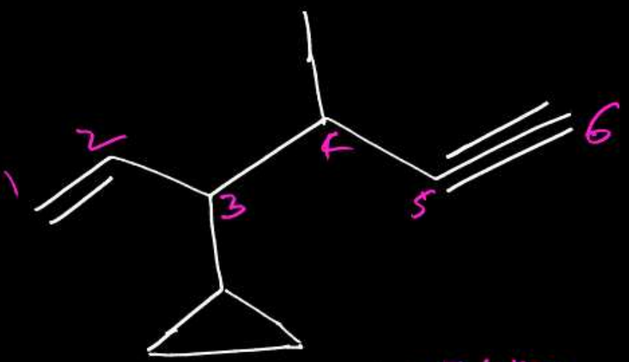


4-n-butylcyclopent-1-ene

#



3-Cyclopropyl-4-methylHex-1-ene-5-yne

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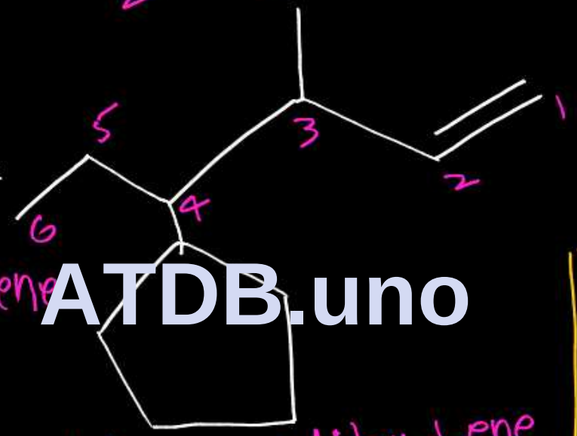
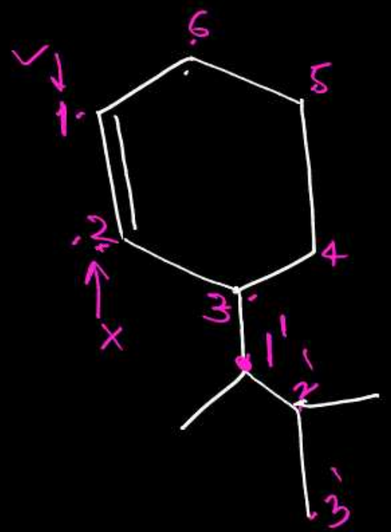


4-Cyclopentyl-3-methylHex-1-ene

3-(1',2'-dimethylpropyl)cycloHex-1-ene

#



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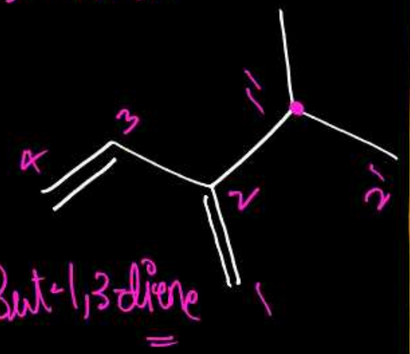

2-(1'-methylethyl)But-1,3-diene

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F.P.D.

1~ Suffix-II

2~ S-I → ene / yne for Unsaturation

max. no. of Unsaturation

⇒ F.P.D: common Preference given double

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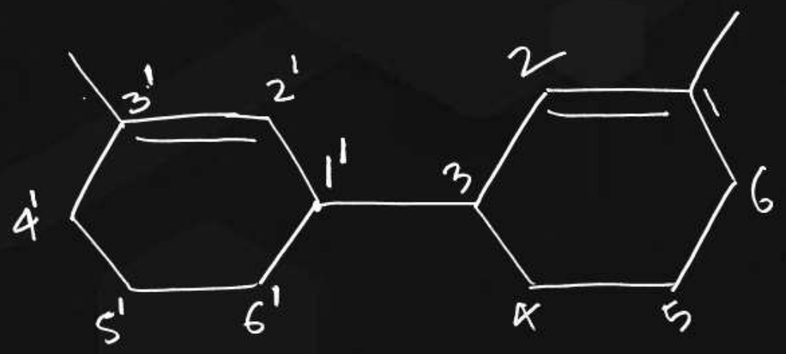

ene enyl

3-(3'-methylcyclohex-2'-enyl)-1-methylcyclohex-1-ene.

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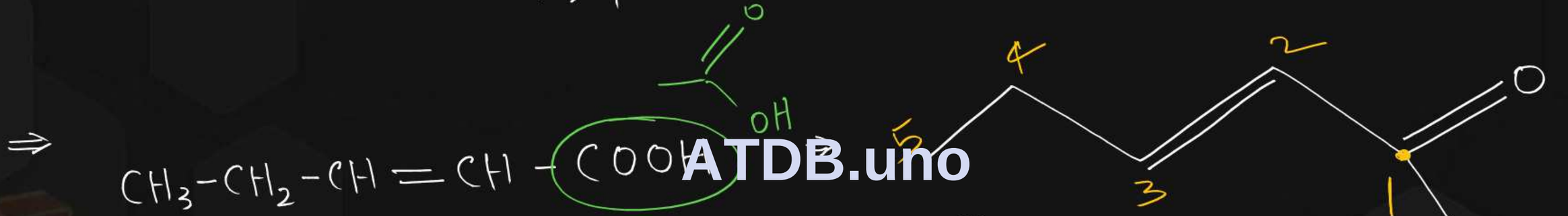
Functional Group :=> monofunctional group
polyfunctional group

monofunctional group :=> F.G. Containing Carbon => Included in main chain
=> Assign position lowest.
F.G. not Containing Carbon



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$CH_3-CH_2-CH=CH-COOH$

$-COOH$ → Suffix → Oic acid { * Carboxylic acid }

Prefix → Carboxy

Pent-2-ene-1-oic acid

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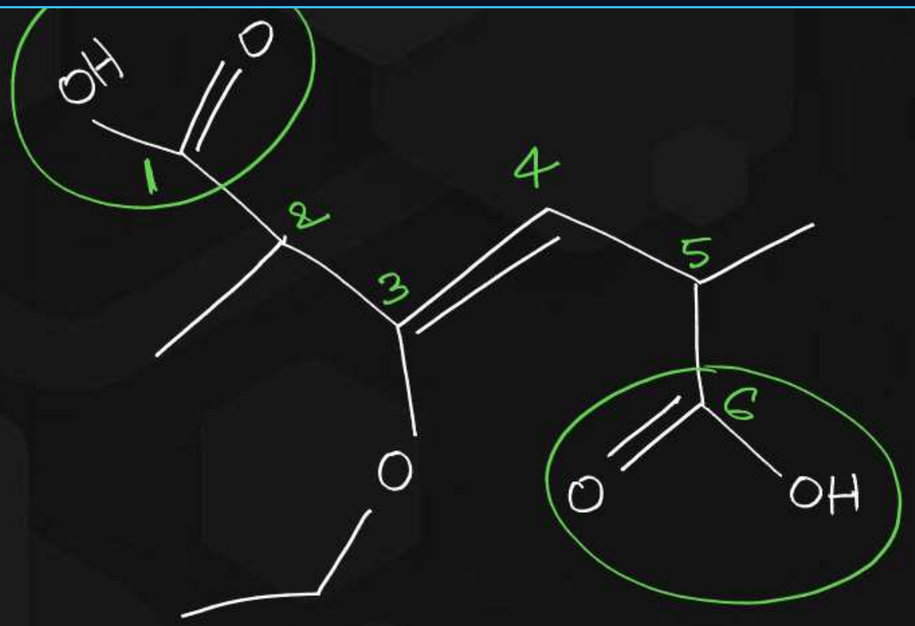

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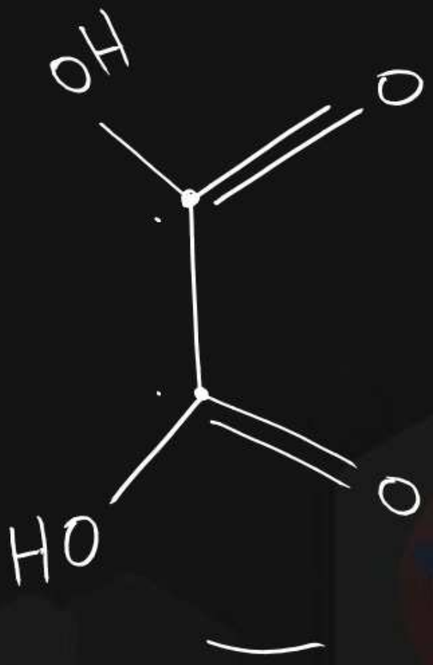
3-ethoxy-2,5-dimethylhex-3-ene-1,6-dioic acid

P RW S-I S-II

−OR

Alkoxy



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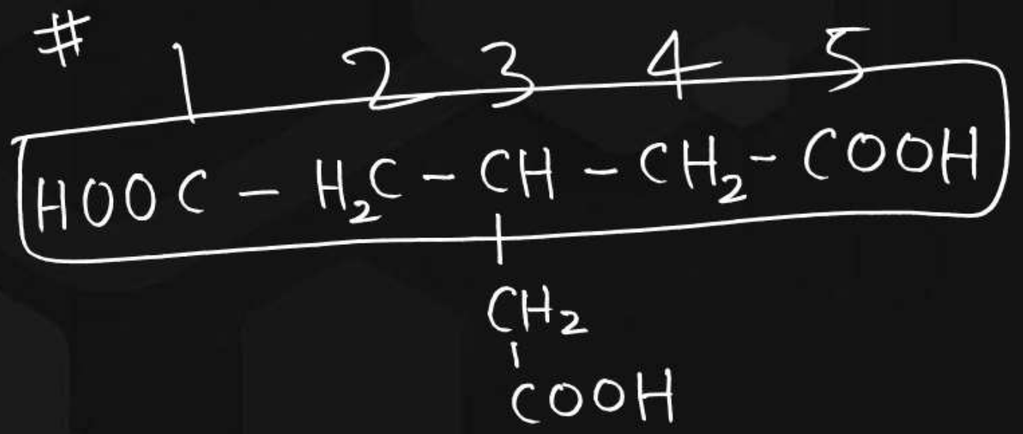
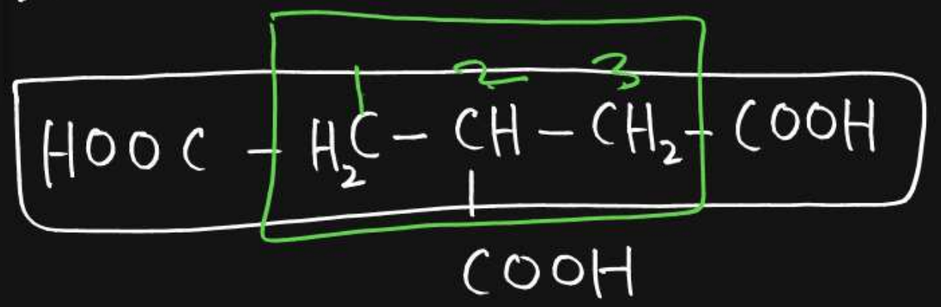


3-Carboxymethylpentane-1,5-dioic acid



Propane-1,2,3-tricarboxylic acid

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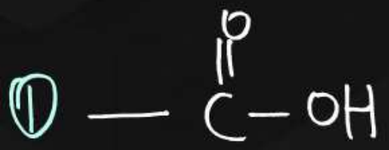
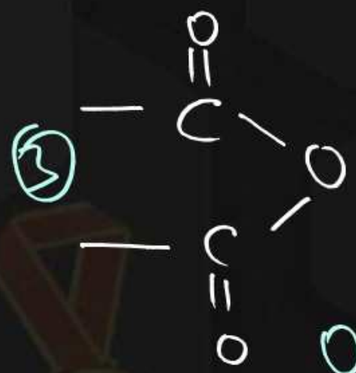
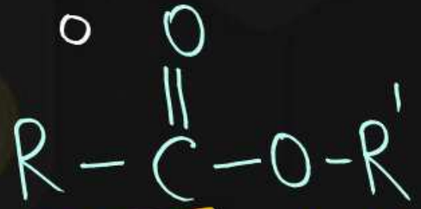
#	group.	Suffix-name	Prefix name
①		oic acid	Carboxy
②		Sulphonic acid	Sulpho
③		oic anhydre	
④	 Alkyl alknoate	oate	alkoxycarbonyl

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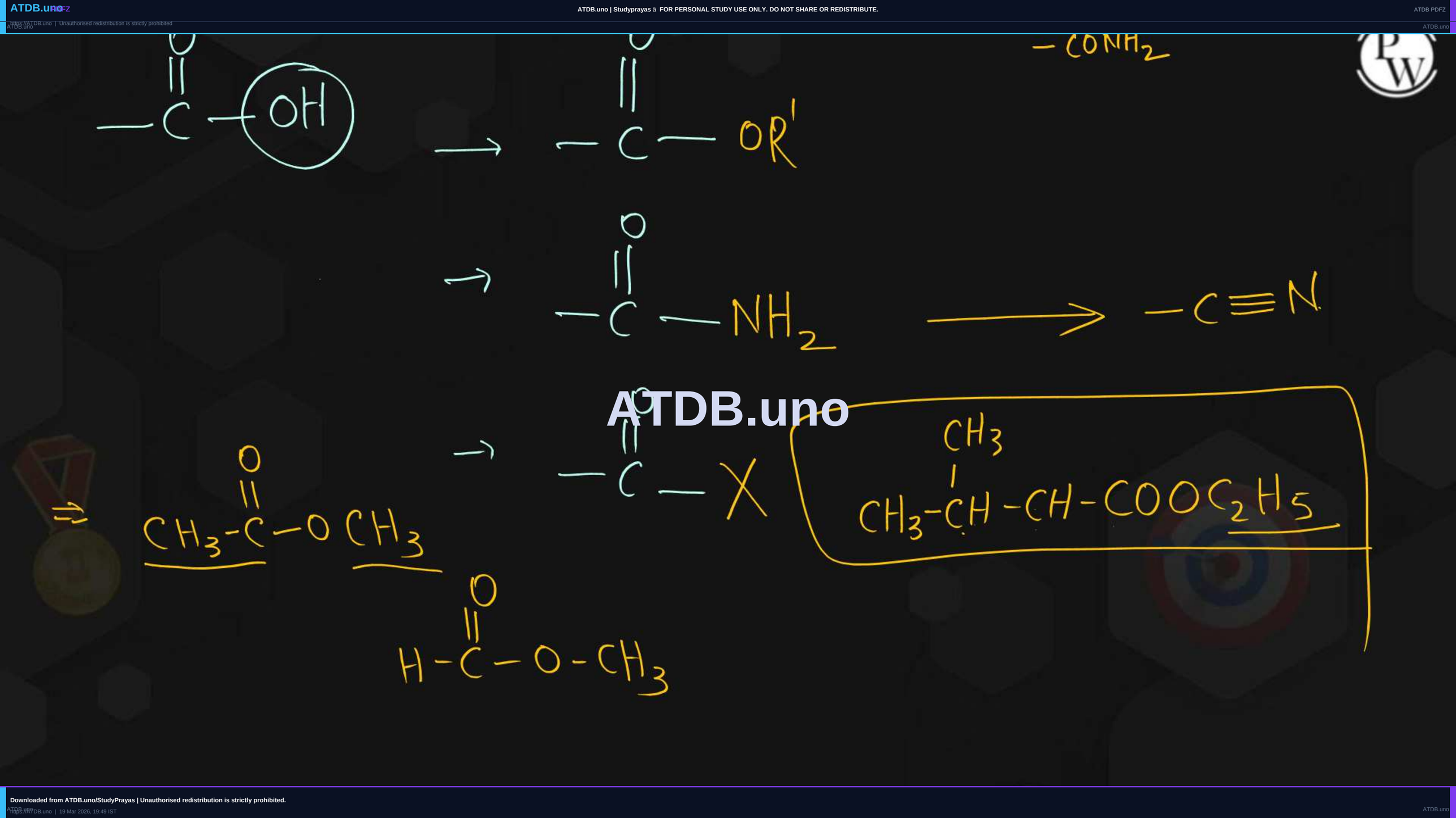

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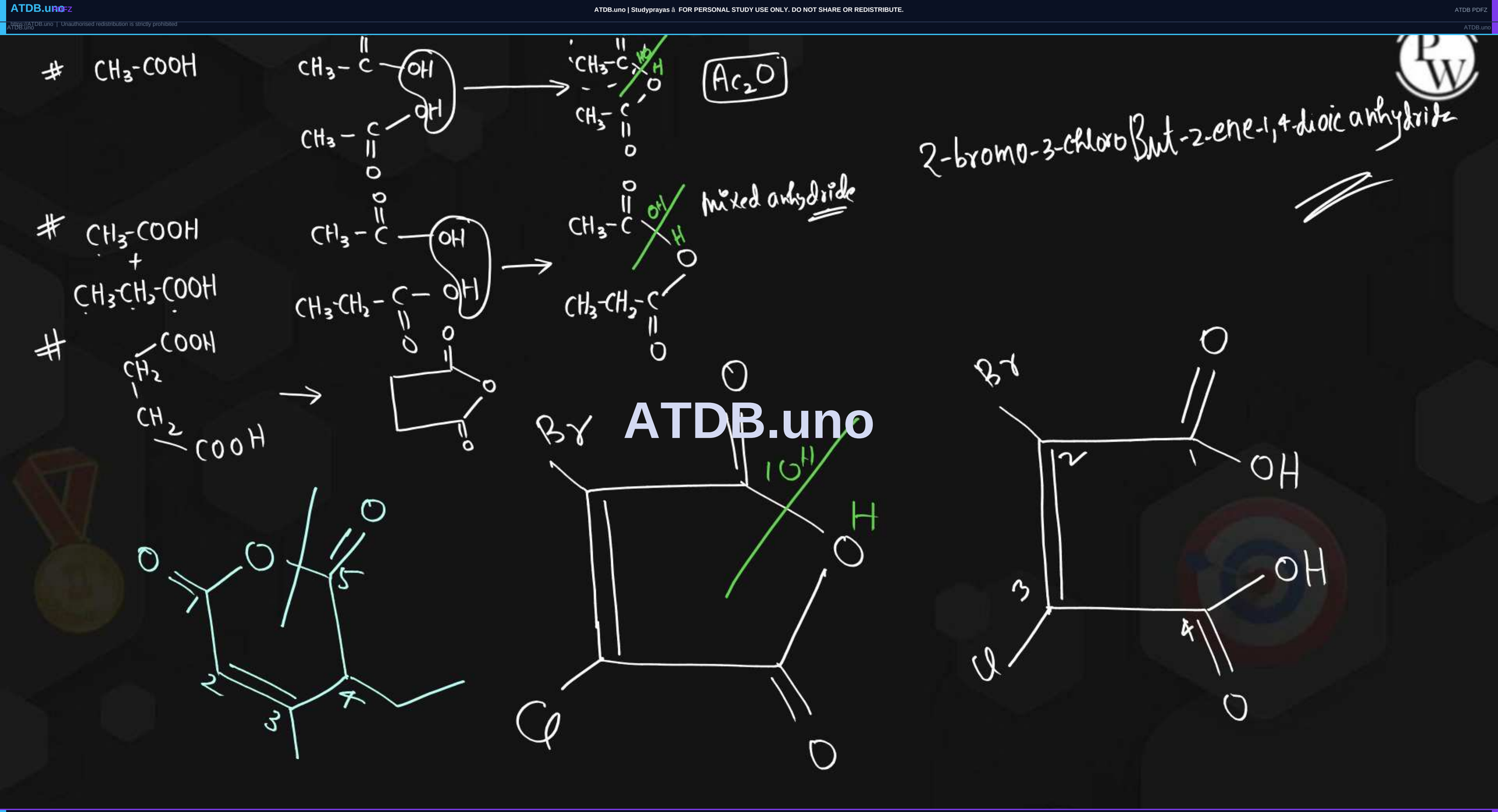

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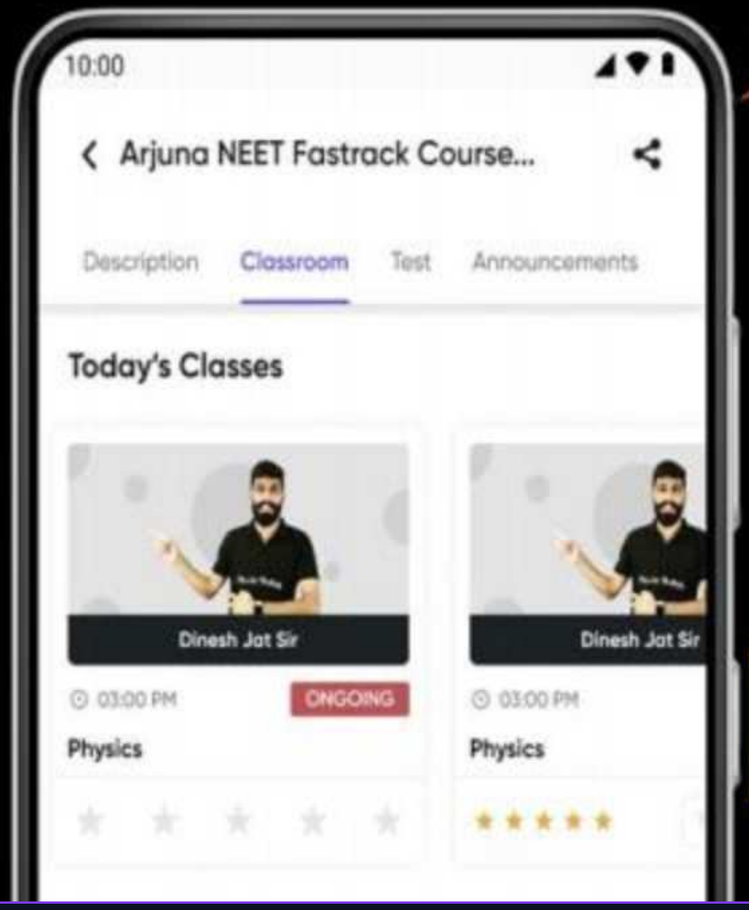
Solve the DPP and check Solution



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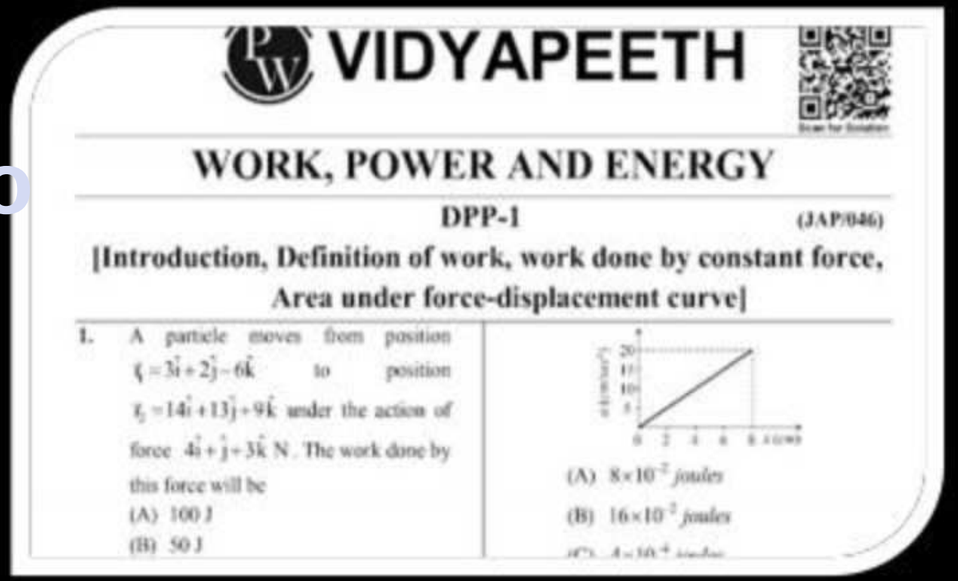

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WORK, POWER AND ENERGY

DPP-1 (JAP/046)

[Introduction, Definition of work, work done by constant force, Area under force-displacement curve]

1. A particle moves from position $\vec{r}_1 = 3\hat{i} + 2\hat{j} - 6\hat{k}$ to position $\vec{r}_2 = 14\hat{i} + 13\hat{j} + 9\hat{k}$ under the action of force $4\hat{i} + \hat{j} + 3\hat{k}$ N. The work done by this force will be

(A) 100 J

(B) 50 J

(A) 8×10^{-2} joules

(B) 16×10^{-2} joules

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