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→ phosphorylation of ADP to make ATP
(chemiosmosis.)

① cyclic phosphorylation

② non-cyclic phosphorylation

Non - Cyclic

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PS - II

P - 100

P680 Ki nanometer

absorb light this
much wavelength.

Ps - II

P680

chlorophyll
type

→ they have different works -

→ Ps - II initiate so the Ps - I into

→ ① Ps - II the ② Ps - I

↓
electron
excite

→ go to Ps - I → they
↓
activate

be separated by NADP⁺

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chlorophyll - a

→ maximum absorbing capacity

680 nm -

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→ PS - 1 700 nm

→ PS - 2 ① light absorb

② transport chain

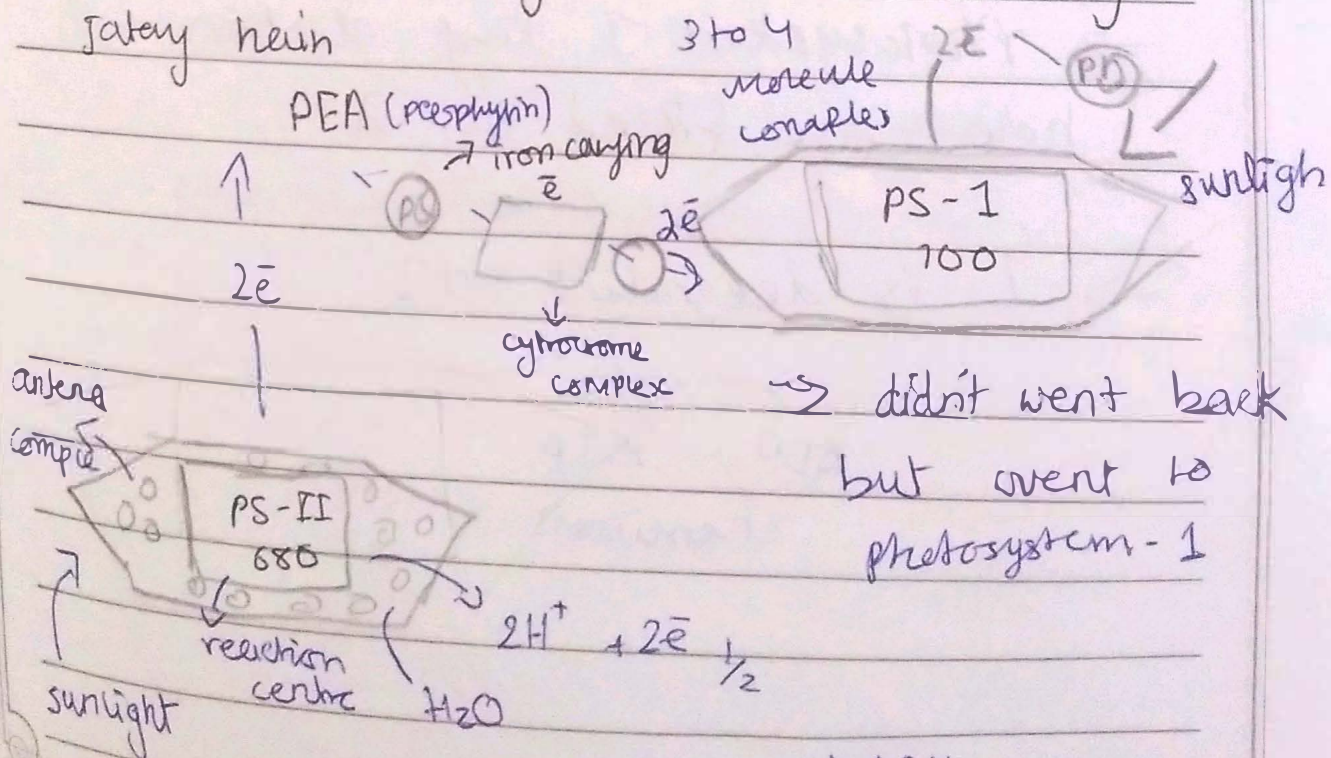
③ from 2 to 1

④ NADP positive

Photosystem - II wapis encapsulate

nahi hotay kahin aur chahney

jatay hein



NADPH enzyme
 hai

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→ Jitna photons absorb hongay utney electrons excite and release

→ hole ko cover krney kay liye hydrolysis water react krta hai-

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→ primary to transfer karga po cytochrome P_1

→ Photosystem I kay electron hole are filled by 2

→ I is dependent on 2

ADP → ATP
chemiosis

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Q - What is non-cyclic phosphorylation - known as ZS -

Q - What is ratio

Q - What is the enzyme

Q - Why

→ prepare for long

Q - Difference between
rylation and photo
phosphorylation -

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→ deficiency of ATP in plants -

→ NADPH 1 : 1
 ATP NADPH

→ ATP is more required by plants.

Q - Why plants switch from non-cyclic to cyclic? light dependent

① deficiency

② accumulation of NADPH in plants

MCQs -

ATP deficiency

NADPH accumulation ✓

→ 1 photosystem # one is involved only -

→ Jab plants key andar ATP ki kami hain hai

→ for sometime only

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→ Independent phase of Photosynthesis

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Three phases

① Carbon Fixation

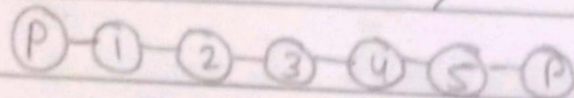
② Reduction phase

③ Regeneration of CO_2 acceptor

① intermediate

② unstable

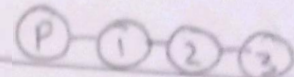
input CO_2



Ribose

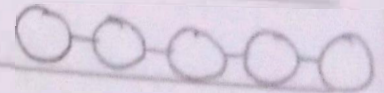
⑥ 1,5 Biphosphate.

3 phosphoglycerate



6 ATP phosphorylated

6 ADP



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Q- Why calvin cycle is known as
C₃ path way?

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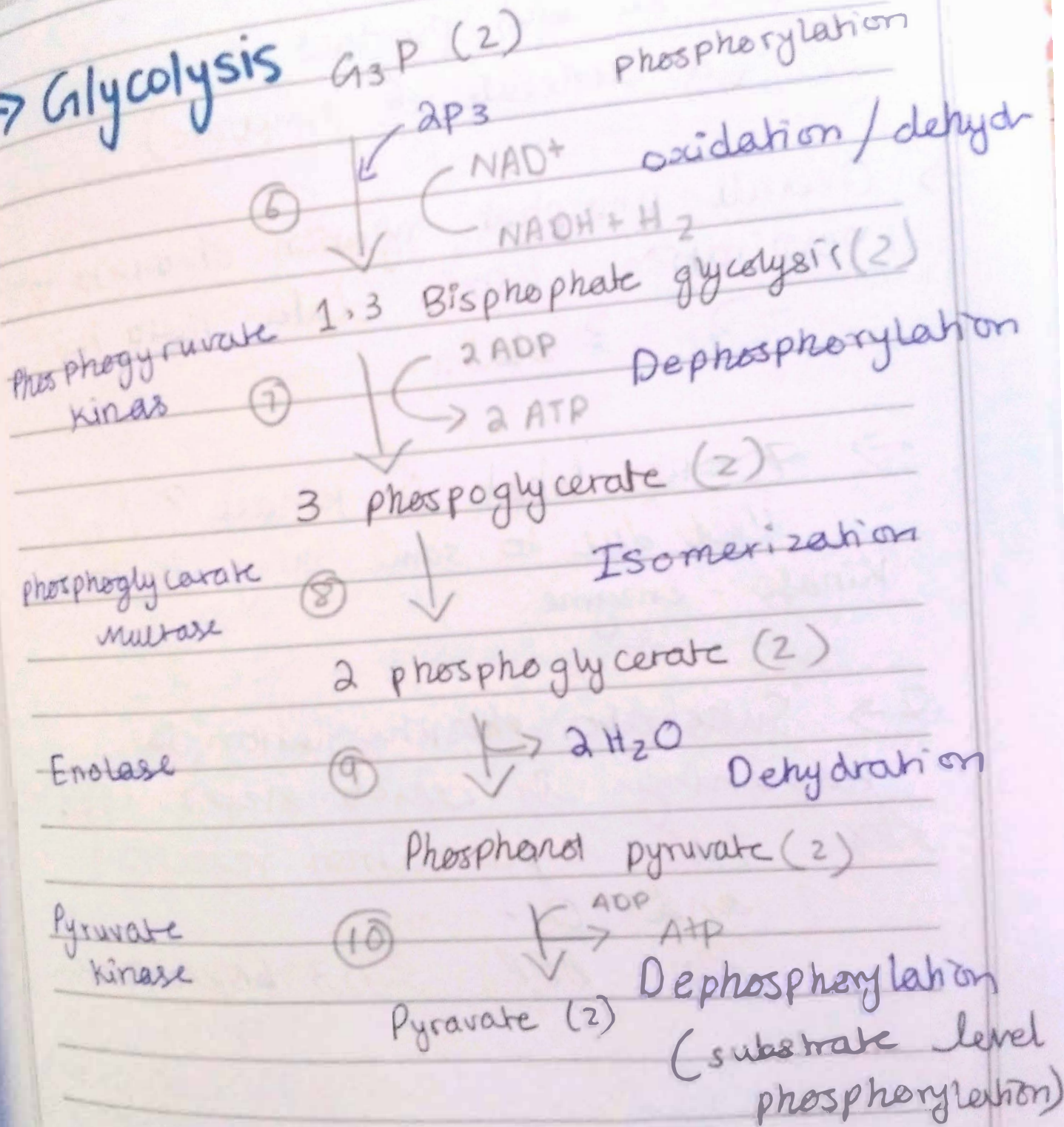
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→ Glycolysis



4 - atp → currency

NADH and FADH

into currency

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MCQs

→ Glycolysis ka end product →
(2-molecules of pyruvate)

→ Overall phosphatylation through glycolysis
respiration kintu data kara hai
→ 3 data

→ ~~7 to 10~~ What is kinase?
Used due to same thing is happening
Kinase - enzyme.

Q → Substrate phosphorylation is
happening in which steps (glycolysis)

Ans - full explanation reaction
1 and 10.

ATP - ADP 1 to 3 kts phosphorylation

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→ glycolysis is performed in cytoplasm

→ creb cycle is performed in mitochondria

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Q- Why oxidation of pyruvate is called link cycle -

glycolysis ko link karta hai in mitochondria -

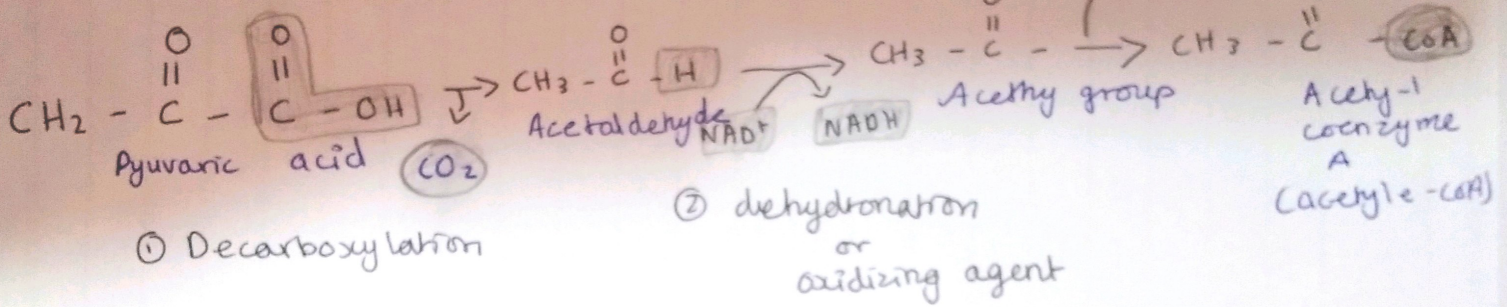
Q- transport protein in which way used to transport

→ it depends on 3 steps

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Performed by

Pyruvate-dehydrogenase complex made by 3 enzyme + 5 cofactor

2 to 3 enzyme K_a complex

① point
→ cytosol → mitochondria
some protein transport called pyruvate translocase

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Tricarboxylic Acid Cycle
Citric Acid Cycle

→ cause first compound is citrate.

Kreb cycle

→ was discovered by hense korb

Q- why kreb cycle is also known as a tricarboxylic acid cycle?

(imp) ~

Q - In ~~kreb~~ which reaction kreb cycle in first time ~~oxidation~~ taking place?

oxidative decarboxylation is formed

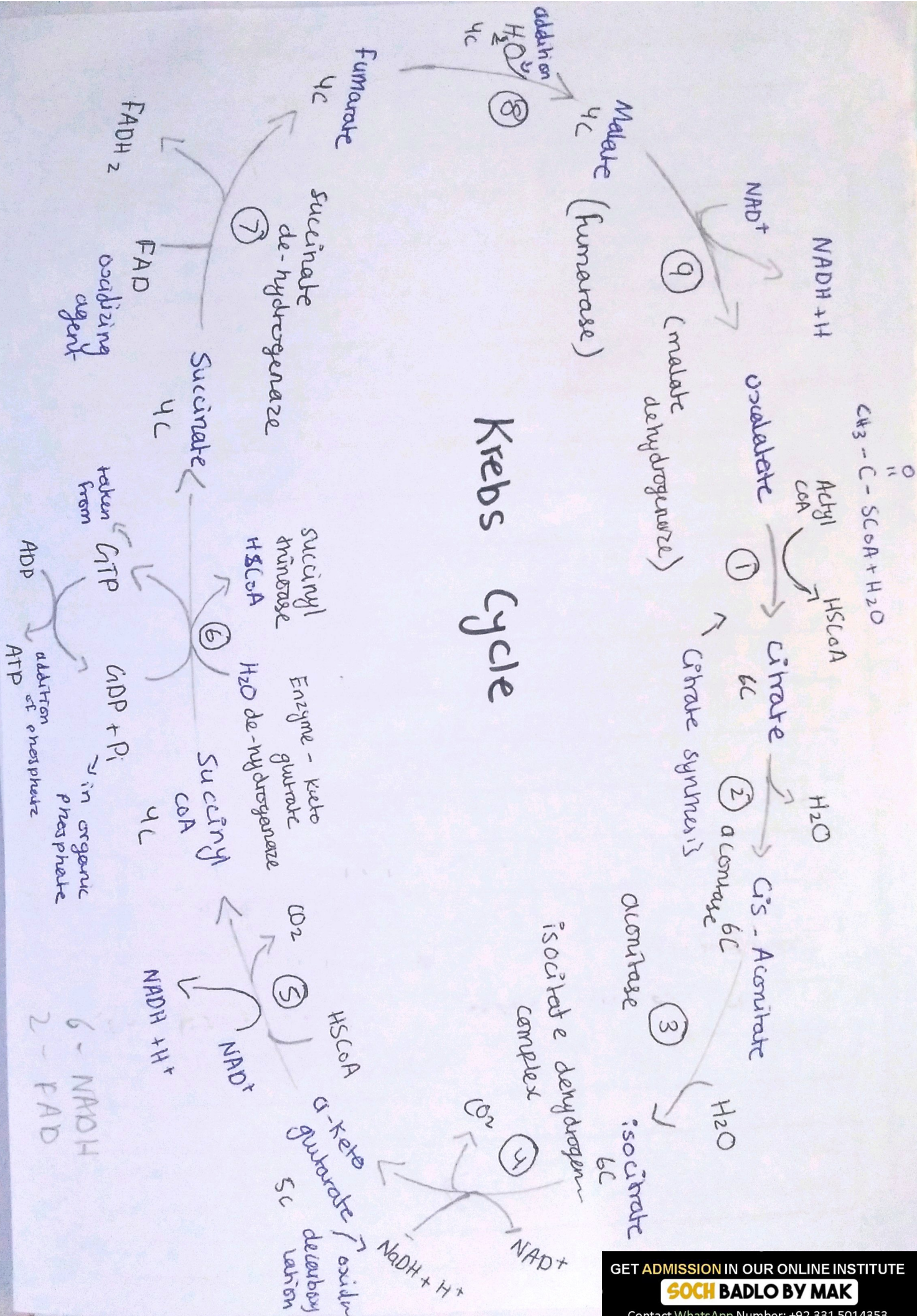
give complete answer

→ Point 8

when ADP take phosphate from its own substrate is called,

→ substrate level phosphorylation

Krebs Cycle



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① NADH - Q reductase or NADH - dehydrogenase complex - I FMN + FE-S

③ Coenzyme Q

④ Cytochrome

⑤ Cytochrome - c

⑥ cytochrome oxidase

→ can be protein complex

→ in the presence of oxygen

→

1, 3, 5 $\rightarrow$ not will only electron
but will pump proton.

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Q- How many atp are produced
by photophosphorylation

chemosynthesis - 32 } eukaryotes
direct - 4

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→ Bioenergetics

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ER - 36 ATP

PR - 38 ATP

cellular respiration mein total - 40
net produced - 36

Prokaryote mein 2 atp ziada hotay
hain cause

→ Aerobic - 2ATP
→ in glycolysis only -

- Substrate level phosphorylation
- Energy calculation

→ exergonic

→ endergonic