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SCOPE & SIGNIFICANCE OF BIO-GEOGRAPHY

(3) જો કુલના 20% બીજા સિદ્ધિમાં - 3 કુલના 20% રૂબરૂ
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 20% સિદ્ધિમાં (3) જો કુલના 20% રૂબરૂ સિદ્ધિમાં - 20% સિદ્ધિમાં
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- i) સમુદ્રાકુળ
- ii) નિર્મલ/કાકુળ
- iii) શ્રીચક્રાકુળ.
- iv) સ્વાધિકાકુળ.

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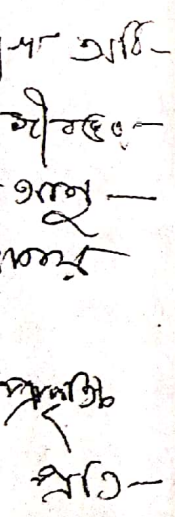
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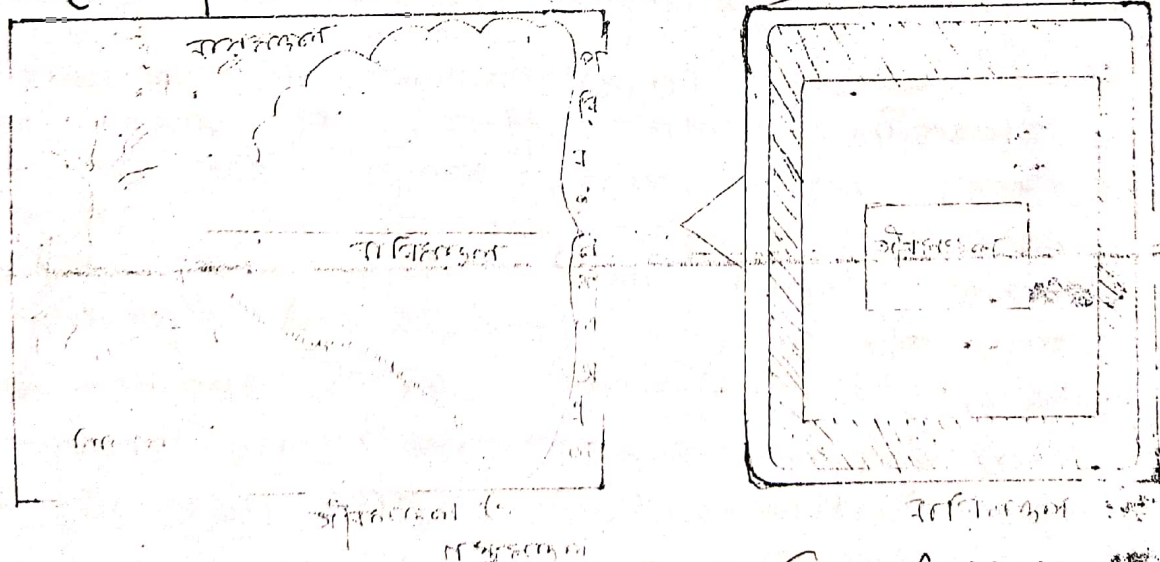
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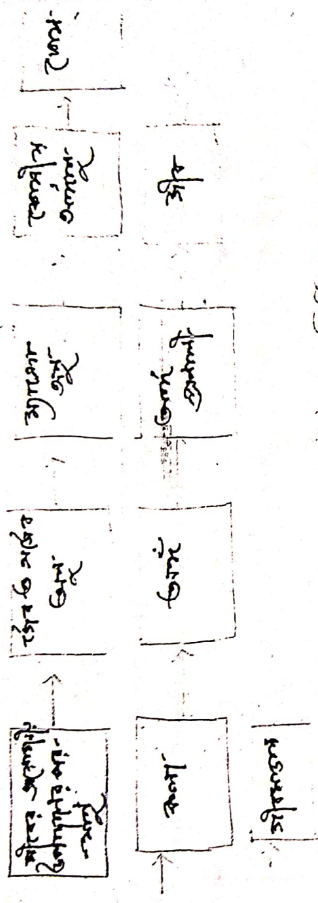
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Ques জৈবজগৎ সংগঠন Structural Organization of Biosphere :-

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Components of Biosphere :-

1. Prepared the children for visitors — visiting — and to
 (Z), leave the (persons) — house — according — to leave — house
before visiting persons — please — elaborate — (person) — house
 'before' children — before visiting — visitors — please — elaborate
before visiting — house — before visiting — house — before visiting — house
before visiting — house — before visiting — house — before visiting — house

first element	second element	third element
H → 49.8	O → 62.9	H → 65.4
O → 24.9	Si → 21.22	O → 33.0
C → 24.9	Al → 6.47	U → 0.33
N → 0.27	H → 2.92	Na → 0.28
Ca → 0.073	Na → 2.64	Ag → 0.03
K → 0.046	Ca → 1.94	S → 0.02
Si → 0.063	Fe → 1.92	Ca → 0.004
Mg → 0.031	Mg → 1.84	K → 0.006
Fe → 0.020	K → 1.42	C → 0.002
S → 0.017	Pi → 0.27	B → 0.0002

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જોડાણ: કાર્યરતી-સક્રિયતા-ઉદ્ગમકાર્ય:- (Functional Organization & Activities of cell):

જોડાણ નિર્માણ: - વિવિધતા - નાનું રૂપ - મુખ્ય

ક્રિયાશીલતા: - નૂતનભાવ - રૂઢિ-ઉદ્ગમ - નિર્માણ
અનુ-ભાવ - નોટુનિ-અભિવ્યક્તિ - કાર્યશીલતા - મુખ્ય-ઉદ્ગમ-ભાવ
અનુ-અભિવ્યક્તિ-જોડાણ-મુદ્ગમ-અ-વિવિધતા-અનુ-ઉદ્ગમ-ભાવ

ક્રિયાશીલતા: - નિર્માણ-અનુ-ઉદ્ગમ-ભાવ-મુખ્ય-ઉદ્ગમ-ભાવ
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જોડાણ-અનુ-ઉદ્ગમ-ભાવ-મુખ્ય-ઉદ્ગમ-ભાવ
અનુ-અભિવ્યક્તિ-જોડાણ-મુદ્ગમ-અ-વિવિધતા-અનુ-ઉદ્ગમ-ભાવ

Hand-drawn diagram illustrating the light reactions of photosynthesis in a thylakoid membrane. The diagram shows the flow of electrons and protons during the process.

Inputs:

- CO_2 (Carbon Dioxide) enters the system.
- Light energy (represented by wavy arrows) is absorbed by Photosystem II (PSII) and Photosystem I (PSI).

Processes:

- Water Splitting:** At PSII, water (H_2O) is split into oxygen (O_2) and protons (H^+).
- Electron Transport:** Electrons from water are transferred through Plastoquinone (Pq), Plastocyanin (Pc), and Ferredoxin (Fd) to NADP $^+$, which is reduced to NADPH.
- Proton Pumping:** Protons are pumped from the stroma into the thylakoid space during the light reactions.
- ATP Synthesis:** The proton gradient drives the synthesis of ATP from ADP and inorganic phosphate (P_i) as protons flow back into the stroma.

Chemical Equation:

$$2 \text{H}_2\text{O} \rightarrow \text{O}_2 + 4\text{e}^- + 4\text{H}^+$$
