

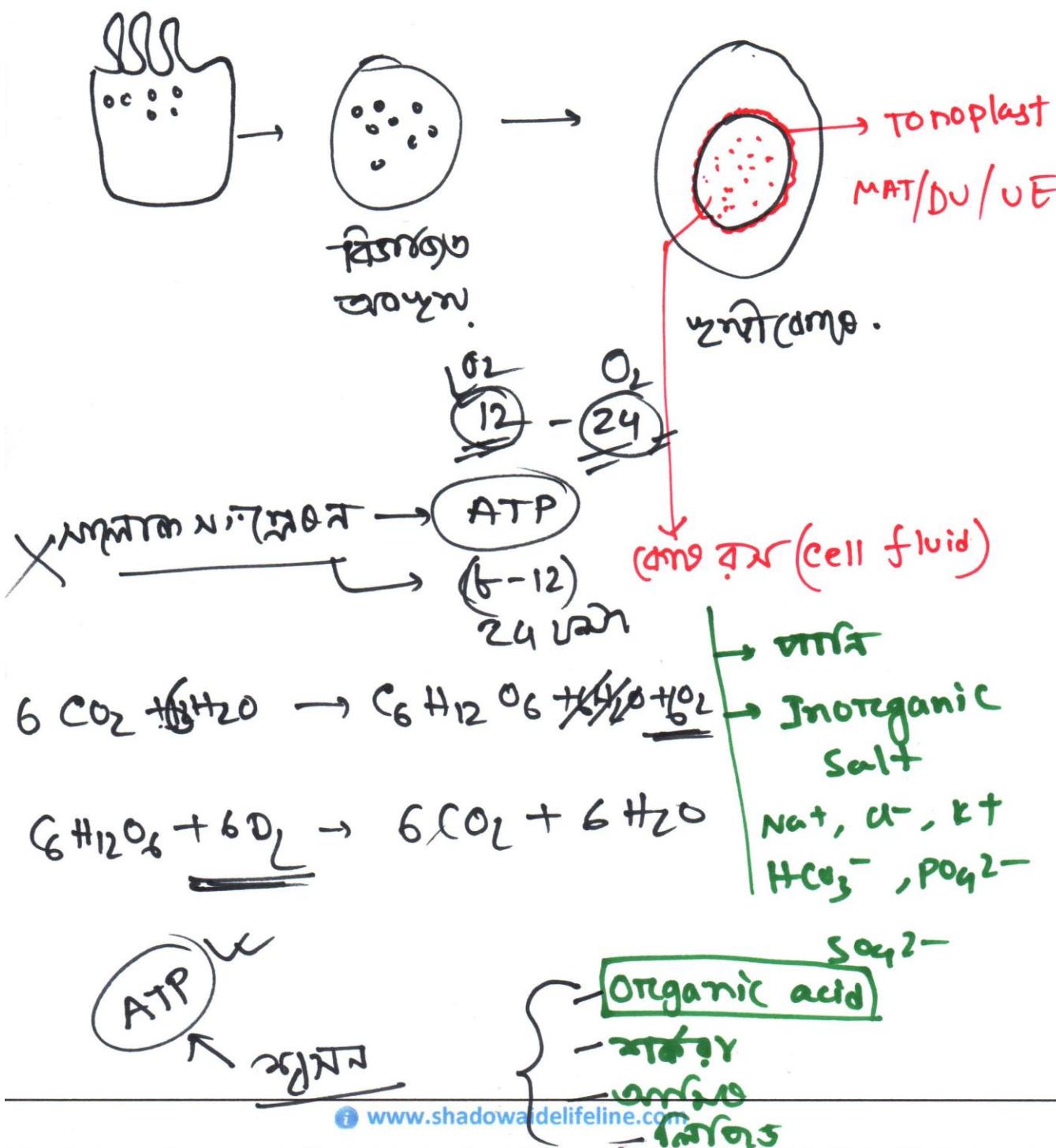
**Batch:**

**Subject:**

## Topic

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क्लोराक्यूलर (cell vacuole) - MAT (18-19)



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Topic

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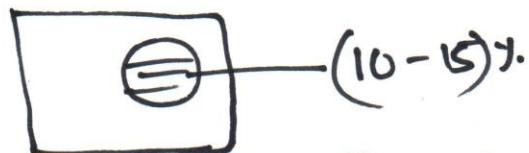
79

## ନ୍ଯୂକ୍ଲେସୁ (Nucleus)

କୋଣ୍ଠ ପତ୍ର, ପ୍ରାନକଣ୍ଟ.

Nucleus : cytoplasm

1 : 4



Except

ଶୁଫାନ୍ତ

Cancer

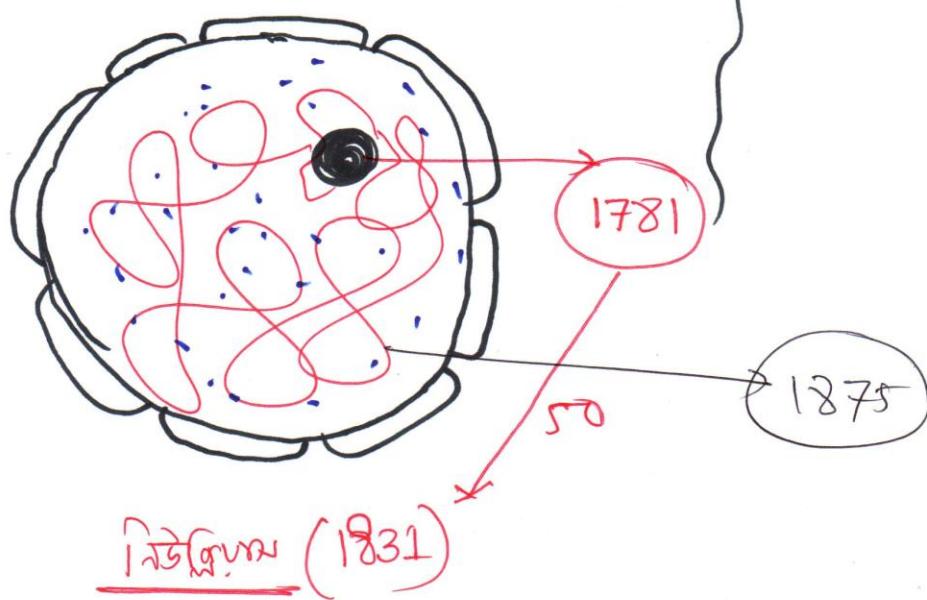
1 : 1.

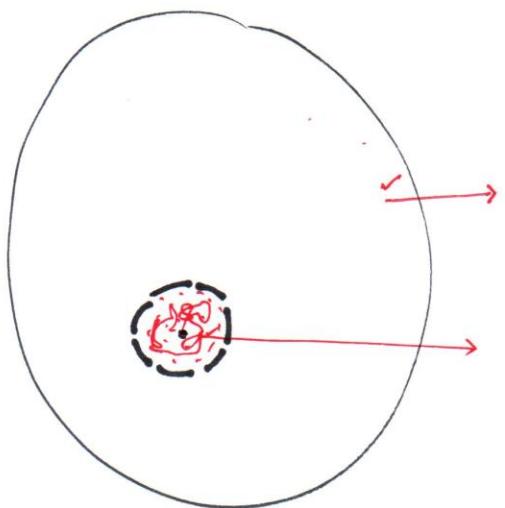
ଅର୍ଦ୍ଧ (ଗାଢ଼ା)

NUX → NUT → Nucleus

MAT

(90% ନ୍ଯୂକ୍ଲେସୁ)





ନିଉକ୍ଲୋଡ ଅଥବା:

ପାରିନିତ R.B.C  
ମିକ୍ରୋଟ (ଫ୍ଲୋମରିଟ୍)

ଏଗାପିତ → coenocytic (ଯାଏ ନିଉକ୍ଲୋଡ ଥିଲୁ (ମୋ))  
(ଚିତ୍ରିତ) ↗ ଶିଳ୍ପି + ଛୁପା. (penicillium)

plasmodium → ସ୍ଵାମିତିକ ଶିଳ୍ପିତ,  
(ପ୍ଲେମୋଡିଆ) → ପଦ୍ମତଳାମ, ରାମଶୀଲାମ.

Batch: 8/11/

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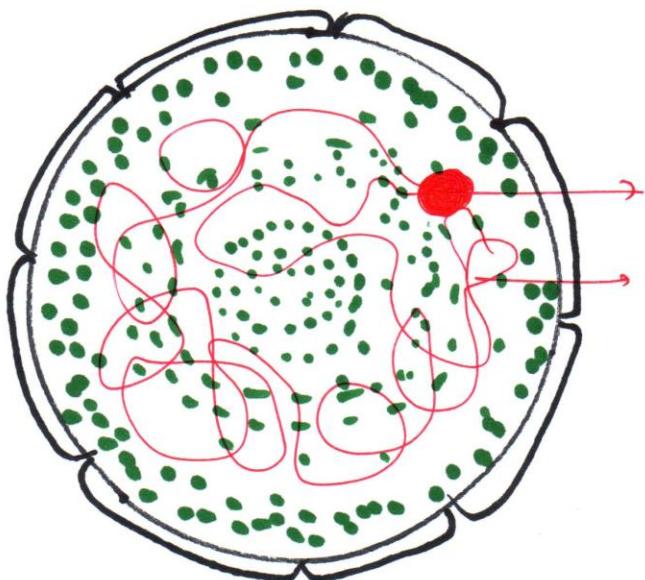
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## निभेल्प्रायः गठन

### निभेल्प्रायः Envelope:

प्रोटीन protein

क्लास गैरित



### निभेल्प्रायः रुक्क/ pore

दूरी - 9 nm

प्रोटीन प्रायः प्रोटीन क्लास विप्रक्रिति है।

कानून: साइटोस्कोप्स द्वारा निभेल्प्रायः सूखा जूना बहुत कम।

### निभेल्प्रायः/ क्लासिकलिंग :

चन, दानादाव, स्पष्ट

उसे zone कहा जाता है-

वाशेवड़ पिक - पार्म अंग्रेजी

चम्पक लिक - ल्यानिमा

(उजड़वड़ पिक → Matrix/मॉट्रिक्स)

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## ପ୍ରାଣୋଦ୍ଧାତ୍ମକ

- ✓ ପ୍ରାଣୋଦ୍ଧାତ୍ମକ ଅନ୍ୟାନ୍ୟ
- ✓ କେଶିପୁ ଯାତ୍ରୁ ଧାରନ କରୁଥିଲା
- ✓ ନିର୍ଭେଦିକ ଏମିତି ହୁଏନା
- protein - ଅଳ୍ଲିଖି
- ୨ ଟା ଟାରେ ମଧ୍ୟରେ  
  - ↳ Ectoplasm
  - ↳ Endoplasm

॥

## ନିର୍ଭେଦିକ

-ନିର୍ଭେଦିକ ଭାବରେ ଆଶୀର୍ବାଦ

ନିର୍ଭେଦିକିତା ଓ କ୍ଷମାଗମ  
ଧାରନ କରୁଥିଲା

ନିର୍ଭେଦିକ ଏମିତି ହୁଏନା

protein - ପ୍ରାଣୀ -

୩ ଟା ଟାରେ

- ✓ ବୃକ୍ଷକ ଅନ୍ତର୍ଗତ

ଅନ୍ତର୍ଗତ

- ✓ ପ୍ରାଣୋଦ୍ଧାତ୍ମକ  
କ୍ଷମାଗମ କରୁଥିଲା

ନିର୍ଭେଦିକିତା (ମହାପର  
କ୍ଷମାଗମ କରୁଥିଲା)

Batch:

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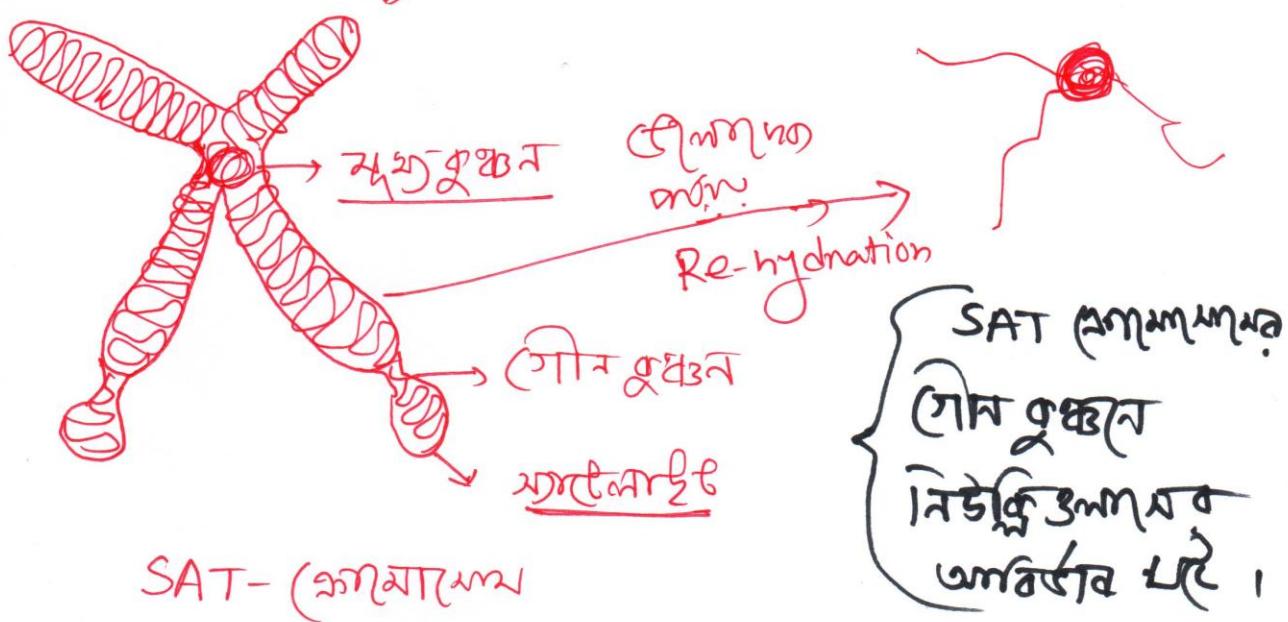
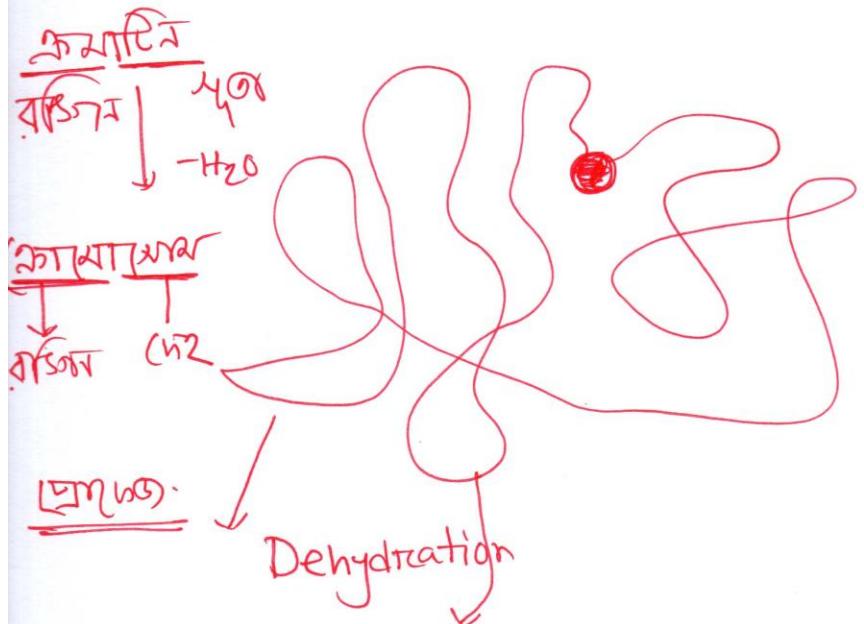
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## প্রজে / ক্লোরোফিল / কলেগোন / প্রাণীক / ট্রেণিং

24 hours

1 টে সেল - **রিডাইক্যুল অবশ্য** (5-10) % = 80 min

অরিডাইক্যুল অবশ্য (90-95) % = 22h 40m



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१ जे निक्टोप्पार्स मधारणे एंदे निक्टोक्रियाम घाक.

But उमकल तेहुँ protein तेवी मानवामि तुँ-

जाहूँ निक्टोक्रियाम प्रकार कोरी तुँ.

प्र॒ उमकल को॑- protein मानवामि तुँ ना जाहूँ

निक्टोक्रिया घाक ना.

तेहुँ (→ शुब्दामूँ, W.B.C)

विधि: ① protein मानवामि करा,

② निक्टोक्रिया एकाइज अंडाचिन्ग एवं करा

निक्टोप्पार्सेट + Inorganic phosphate  
↓

N<sub>2</sub>-Bose + तुँ बिंदुम शक्ति  
उग्राचा, गुण्डा, माझेवा तुँ  
रसायन  
रिबोज / De oxyribose  
sugar.

ক্রোমোসোম (chromosome)

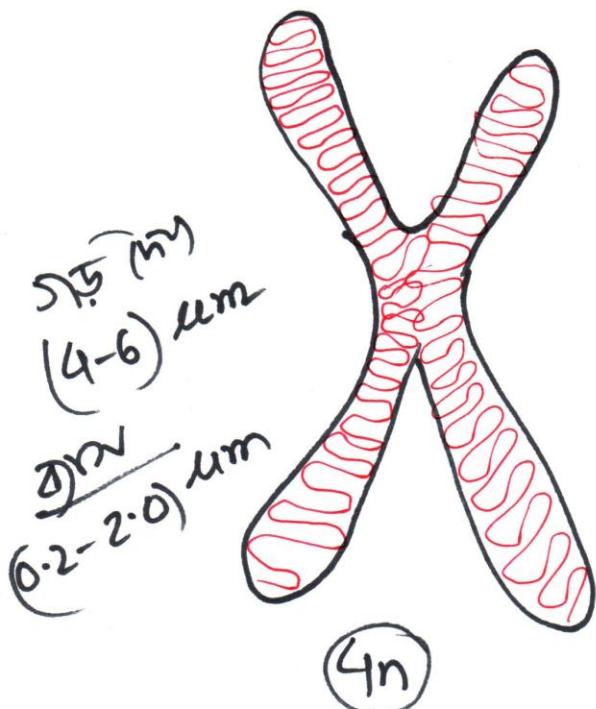
বংশন (পৰি)

মুলাণিন

অনুভিপন সমতা প্লেচ

বৃংধাবণ কাবী মুহাম্মদ

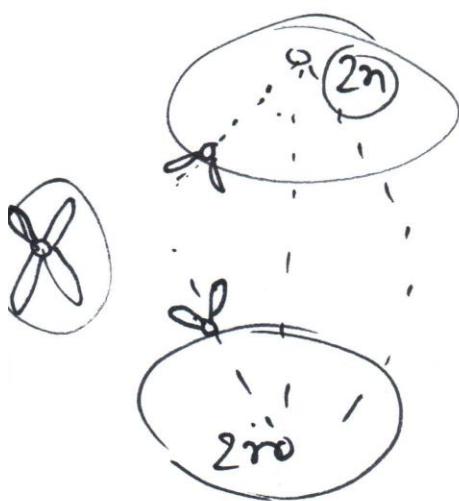
বৃংধাবণ, প্রকৃষ্ণ, মিঠৈলৈ



Stress - burger (1875)

কোষ বিভাগন রয়েছে

ক্রোমোসোম আবিষ্কার  
রেন্টেন্স.



২ → ১৬০০

গালুজি

বাড়ত কোষ

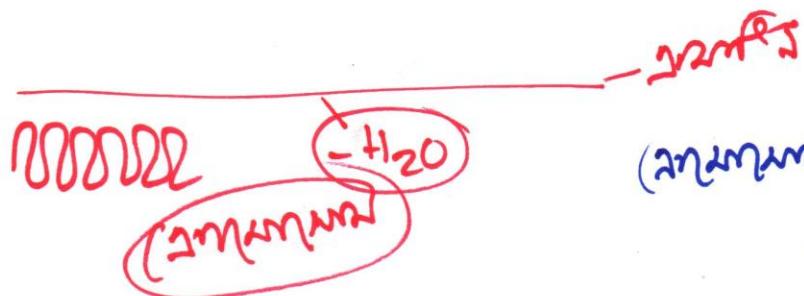
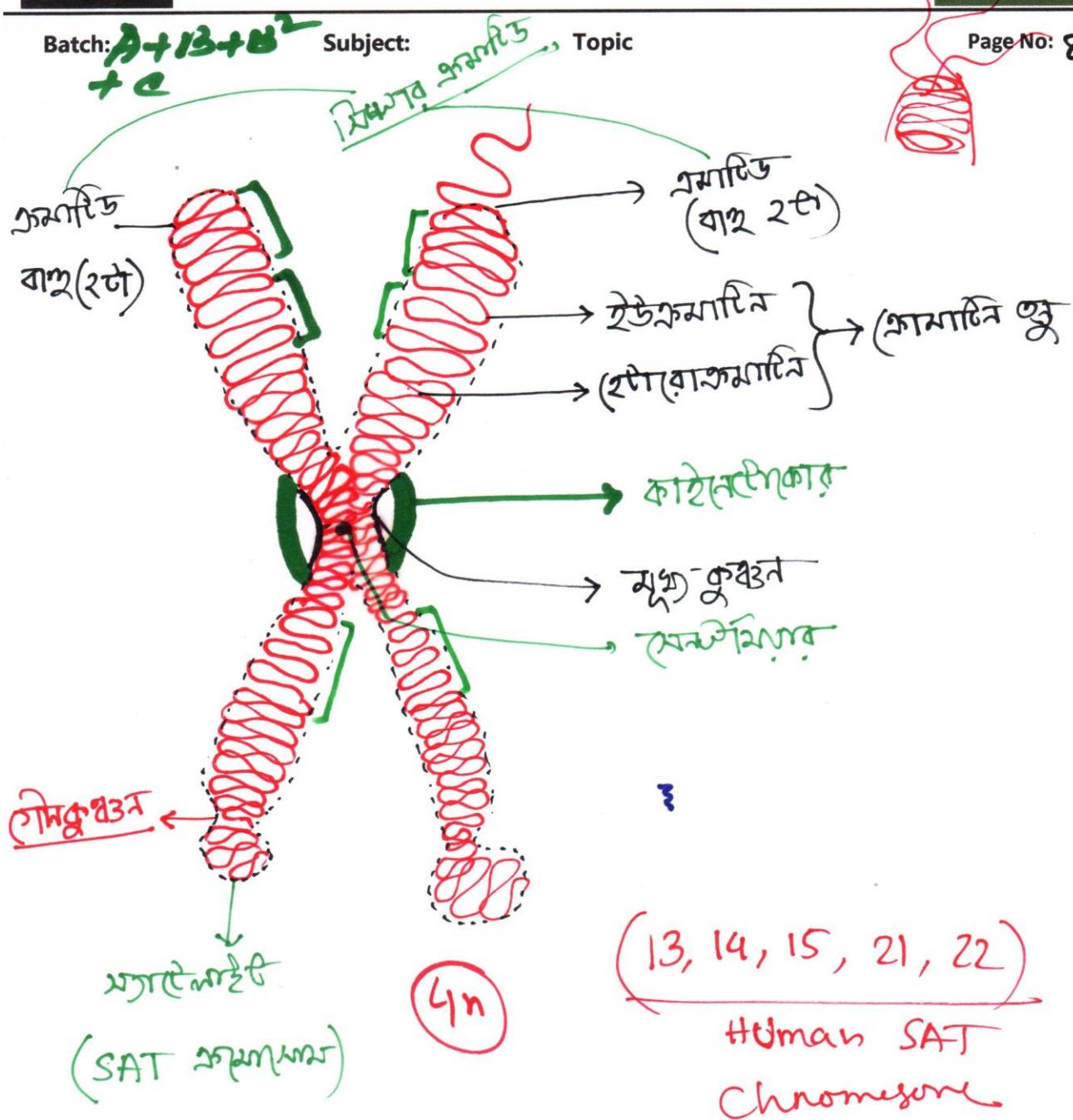
(২-৫০)

Batch: A + B + C<sup>2</sup>  
+ C

Subject:

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$$\text{प्रवासी} = 4n$$

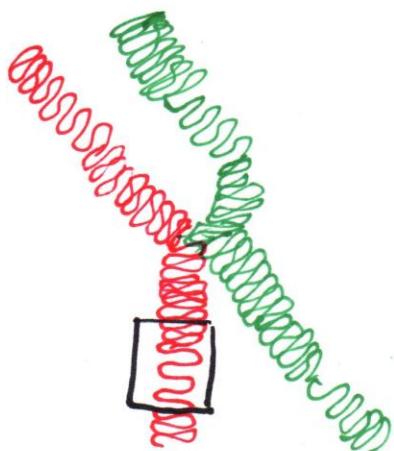
$$2n \sum 2^n$$

Batch:

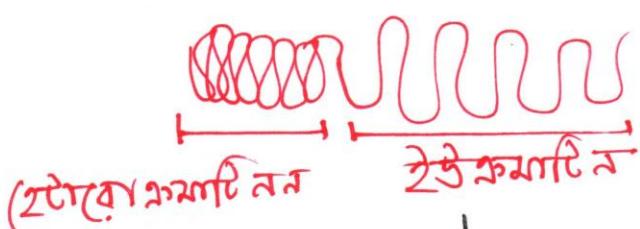
Subject:

Topic

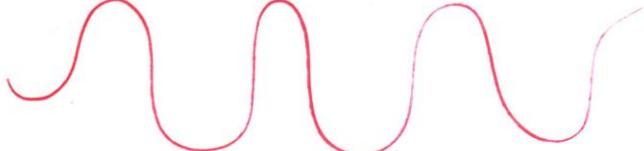
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1400 nm



700 nm



300 nm



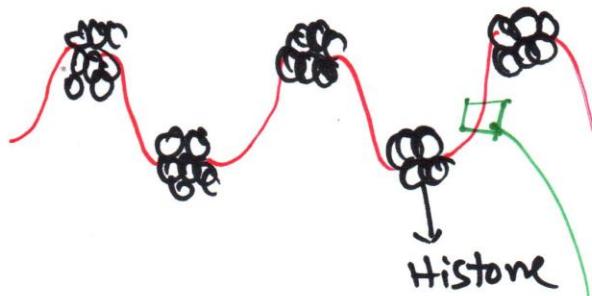
30 nm



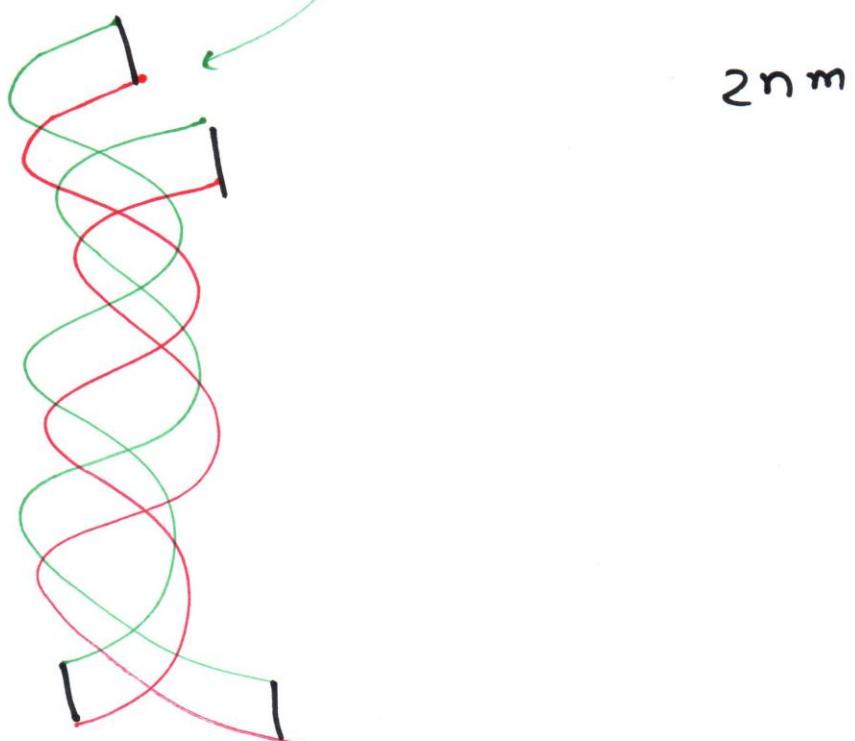
Batch: D

Subject: **Biolog** Topic

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11 nm



2 nm

Batch: A+B+B2

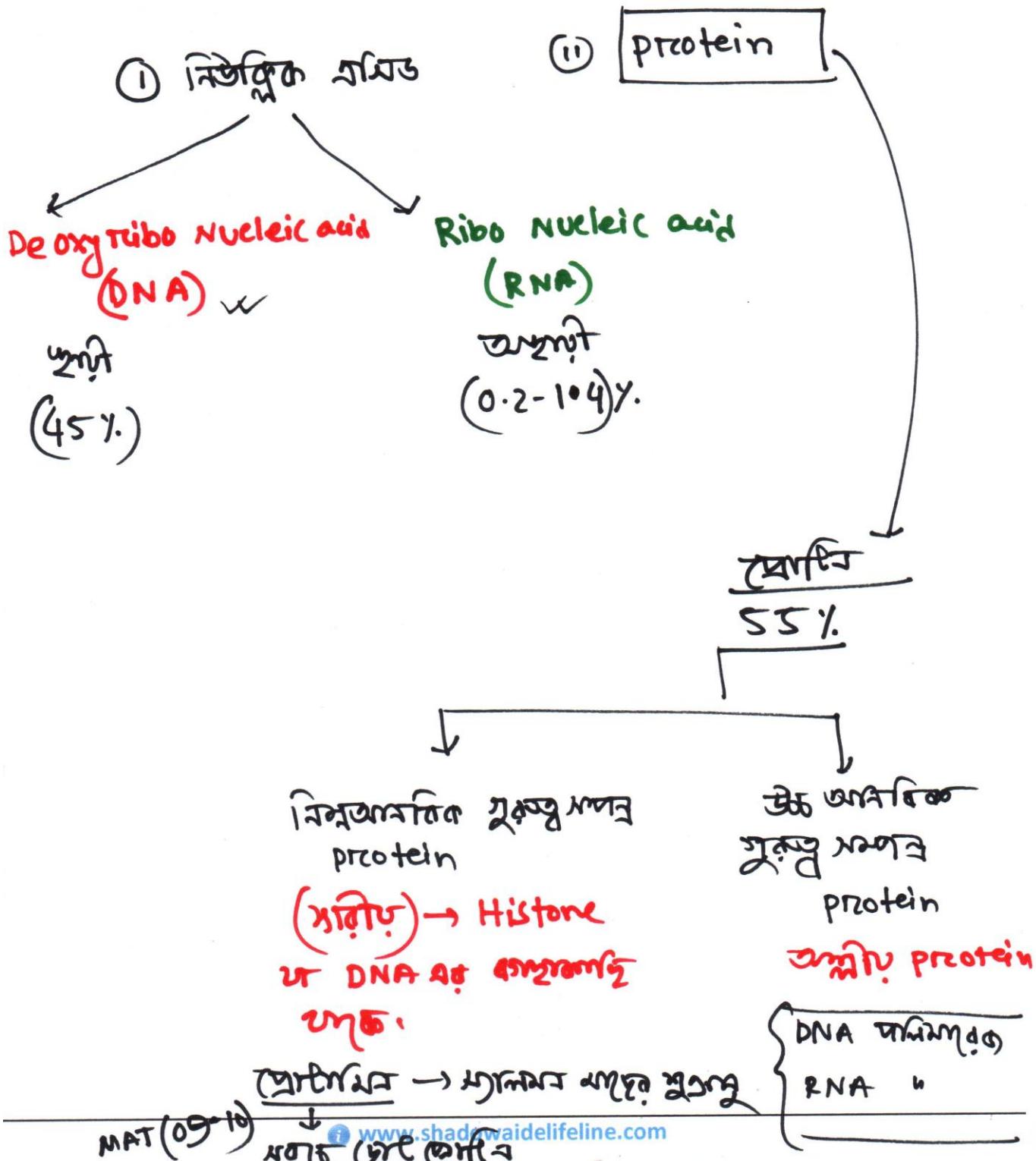
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## କ୍ରମୋମେଡ ରାମଣ୍ଡିକ ଗଠନ :



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## "କ୍ଷେତ୍ରବିନିଯୋଗ ମାଧ୍ୟମ ଅନୁପାନୀ "

କ୍ଷେତ୍ରବିନିଯୋଗ

ମାନ୍ୟମୂଳିକ



Dicentric

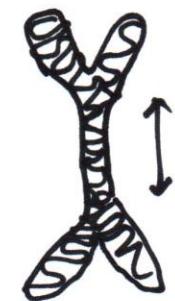


ଦ୍ୱାରା  
ବିନିଯୋଗ  
ପରିଚାରିତ

Polycentric



କ୍ଷେତ୍ରବିନିଯୋଗ



Diffused

Acentric

ଯୁଣ ଫ୍ରେମସାର୍କ ଥିଲେ କ୍ଷେତ୍ରବିନିଯୋଗ

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## ଶ୍ରୀମଦ୍ଭଗବତ ପାଠ୍ୟ ଅବସ୍ଥା (କୋଣିକାନ୍ତ ଆଶ୍ରମକର୍ମା)



ଏଟୋ ମଧ୍ୟରେ



ମାଝ - ଏଟୋ ମଧ୍ୟରେ



Aero centric



Telocentric

ରଖାରୁକ୍ଷର

ଉଚ୍ଚ-ମଧ୍ୟକ୍ଷର

ଭେଣ୍ଟାଳଜ୍ଞତା

ଅଭିଷ୍ଠ

ୱ

L

J

।

ଏହା  
ସମ୍ମନ କଲିବ  
ପାତୁଥିବା  
ନା.

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## ବୈଶିଳି ଅନୁଷ୍ଠାନି:

① **Autosome**: ଦେଣିଲା ହେଉଥାରୁ

୨୨ ଟ୍ରୋଫ୍

② **Sex chromosome**: କିମ୍ବା ପ୍ରିକଟାରୀ ବଳି ହେଉଥାରୁ  
୧୯୮୮



(ମାତ୍ରାଲାଗାମ)



ଦେଖାଇଗଲାମାରୁ

♀

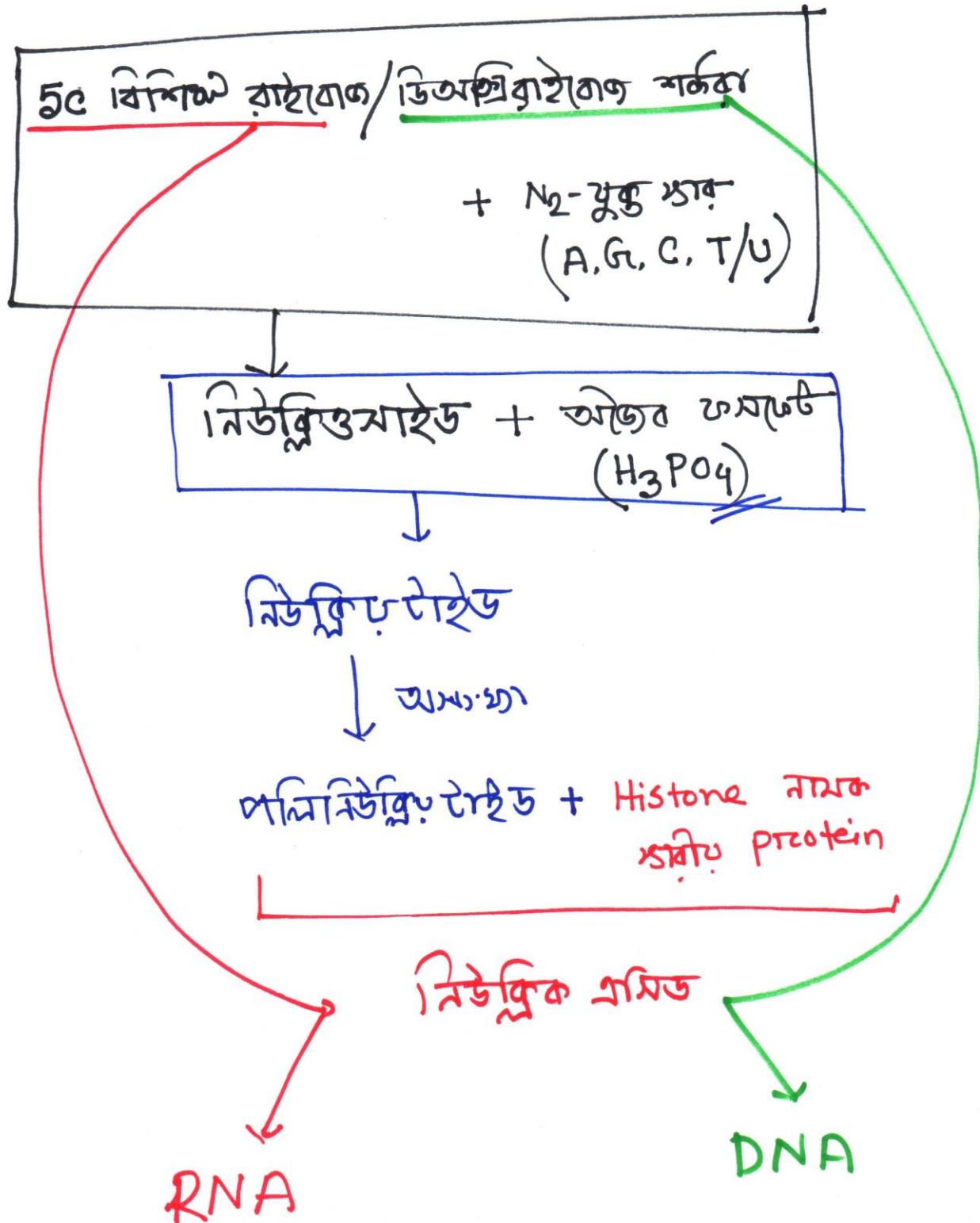
♂

Batch:

Subject:

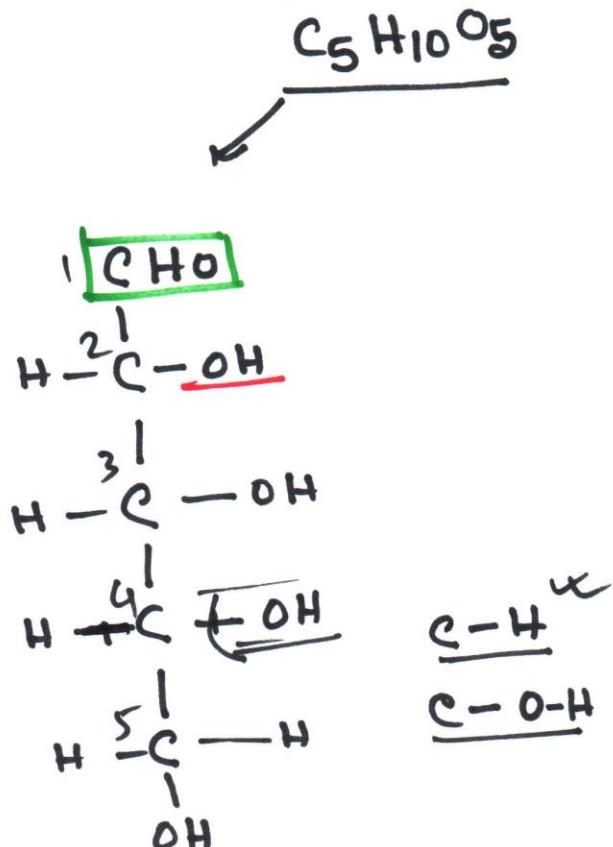
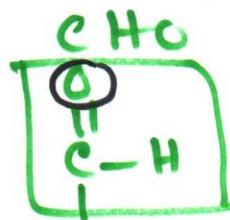
Topic

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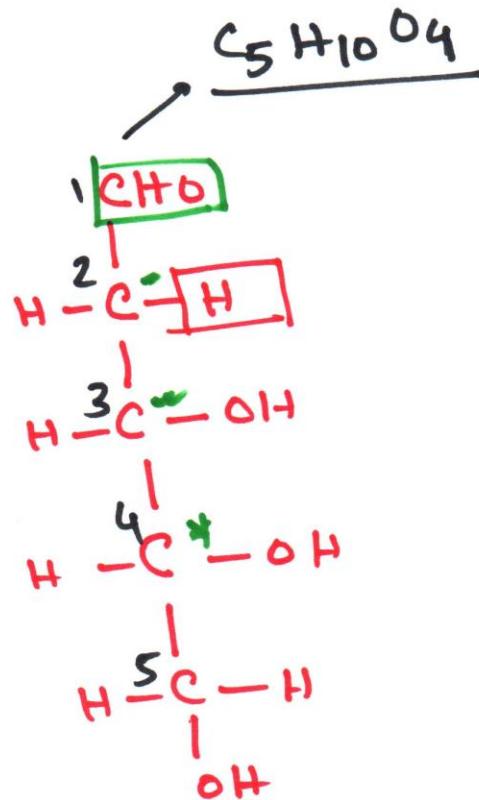
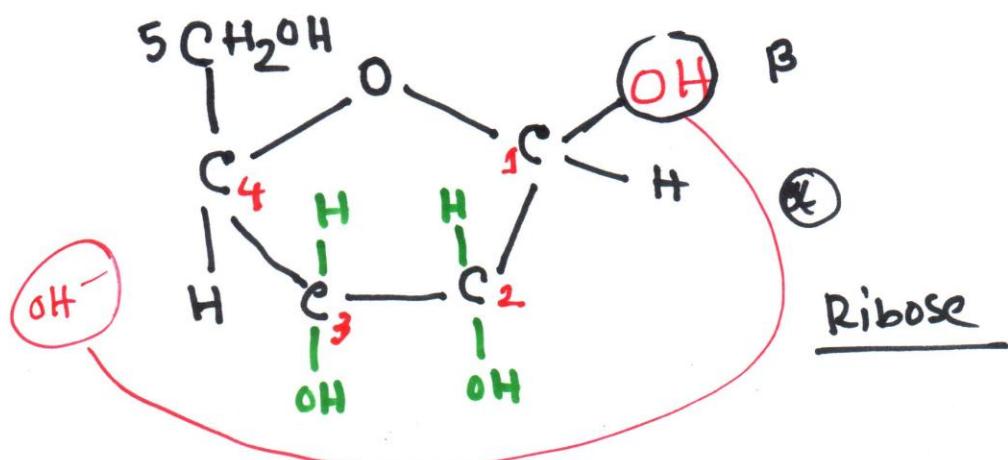


93

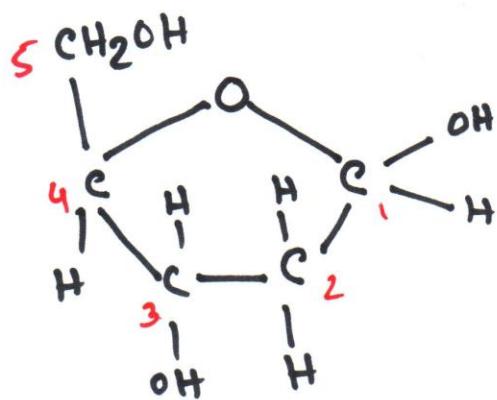
DNA  
De-oxy      Ribo      Nucleic Acid.



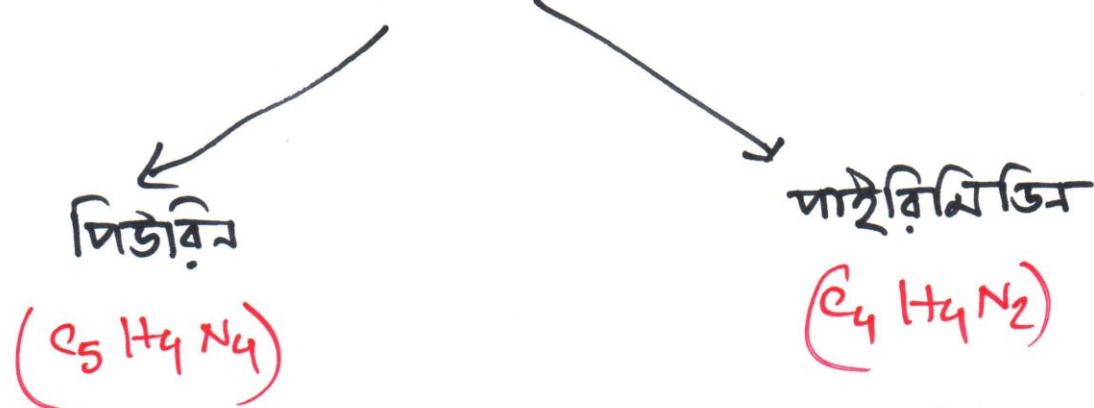
Ribose

De-oxy Ribose

94

De-oxy Ribose

নায়িক্রান্ত পুরু জাব



✓ এফাইজিন  
✓ শুভার্স



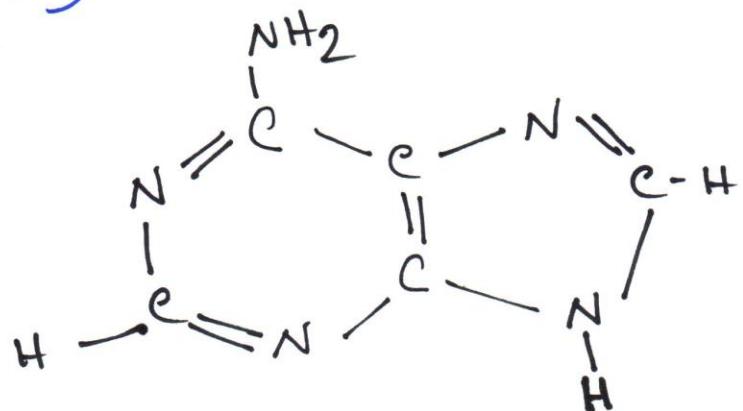
- ✓ মাইটোমিন
- ✓ অ্যামিন
- ✓ টেক্সামিন

অ্যাজেন্সি = A

এজেন্সি → gland / গ্রাণ্ড

চাকুমার গ্রাণ্ড = প্রথম অধিকৃত

{ অনু:ভূক্ত ফাই  
বা প্রয়োগ  
শুরুনামীর )

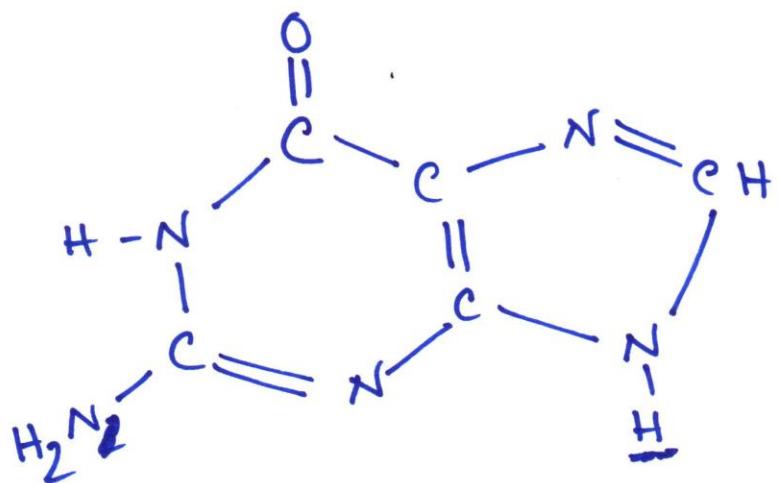


ଶୁଧାନିଃ ଗ୍ର

ଉତ୍କୃତ ପାମିରୁ ପୃତ୍ତ ଖଳ

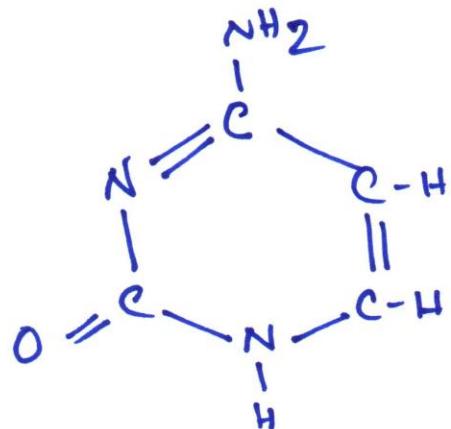
(ଯାମୁଡ଼/ଶିଥାତ୍)

ଶୁଧା-ଟିପ୍- ଅଣାନ୍ ଯାନ୍ ହେବ୍ ଲୈସ (ଗ୍ର).



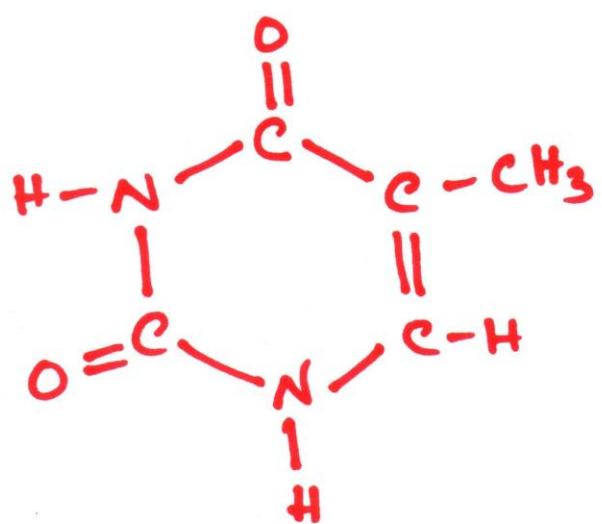
মাটিযোগিক: C

মাটিয়ের = কেলি = (মৰ্দ.

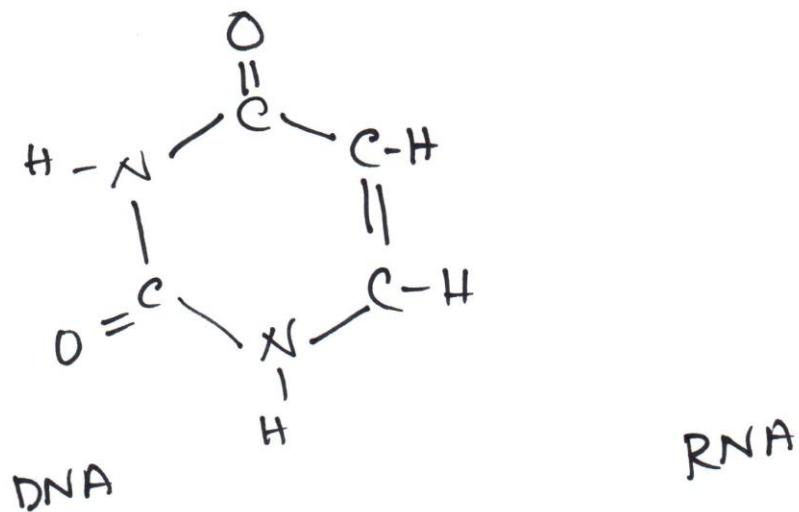


প্ৰযোগিক: T

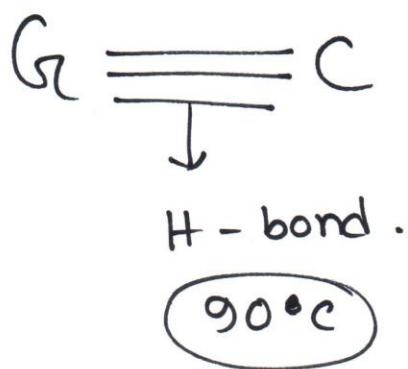
ভাৰতীয় প্ৰাচী



उड्डामिल : U (RNA)



$$\text{A} = \text{T} \quad / \quad \text{A} = \text{U}$$



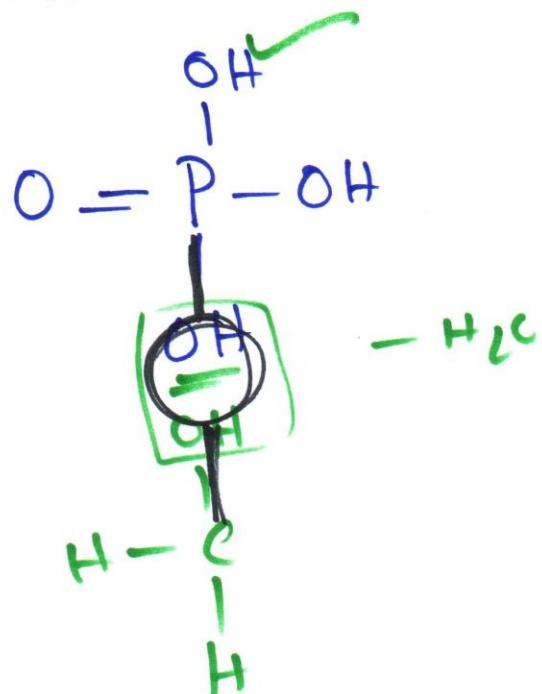
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Subject:

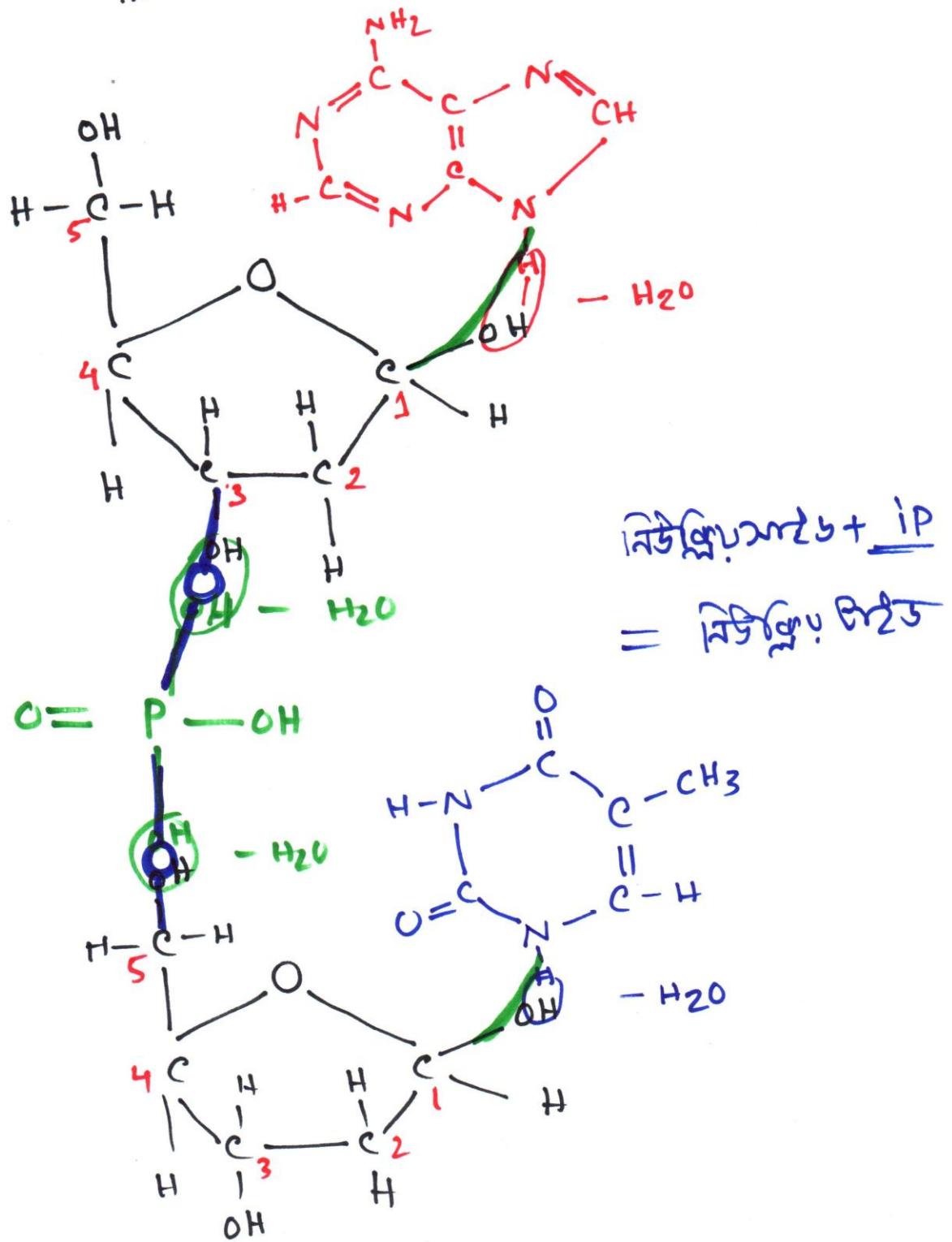
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അമുക്ക നാലൂർ  
H<sub>3</sub>PO<sub>4</sub> (അമുക്ക നാലൂർ പരിപ്രേക്ഷ



$$\text{ਨਿੱਜੀ ਪ੍ਰਮਾਣੇ } = 5.0 \text{ ਅਕੰਡਾ + } N_2 - \frac{5}{2} \text{ ਅਕੰਡਾ}$$



Batch:

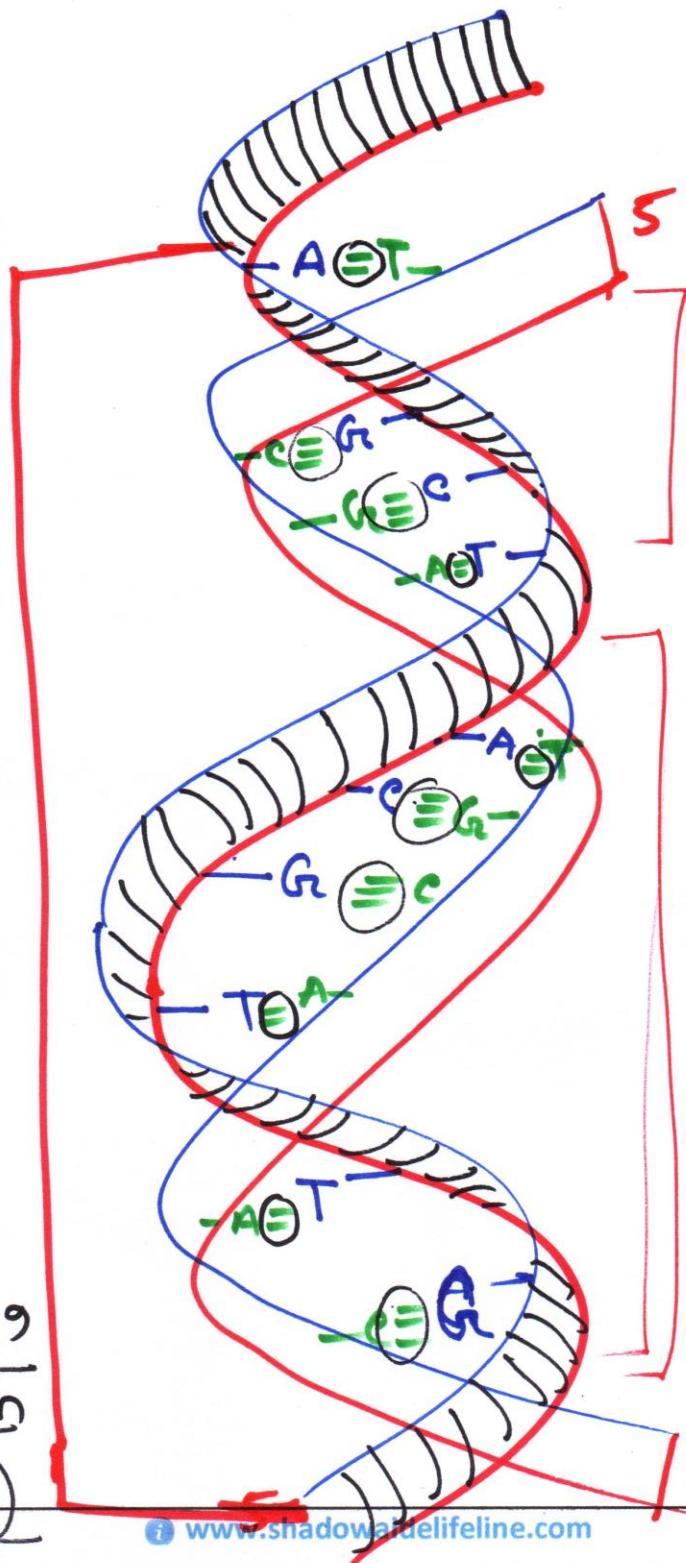
Subject:

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## DNA एवं डीएचए

3



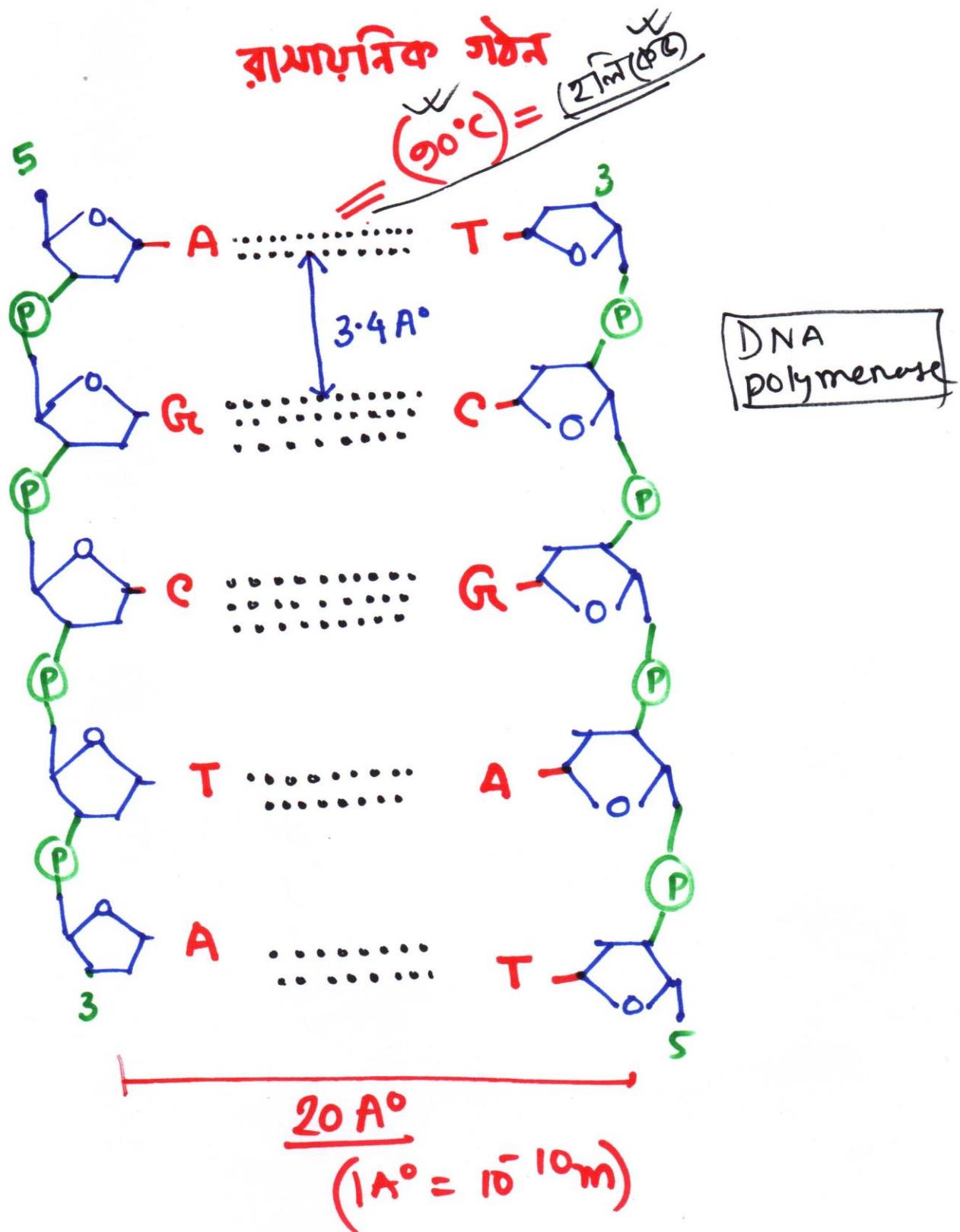
आवधिक  
जटान of  
DNA =  $\frac{10^6 - 10^9}{\text{Dalton}}$   
(1D =  $10^{-10} \text{ g}$ )

Batch:

Subject:

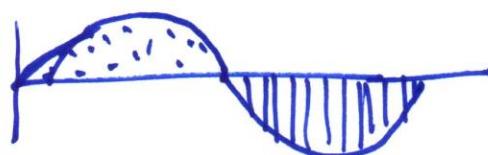
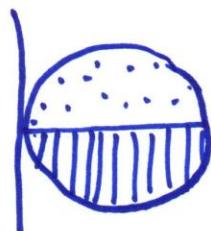
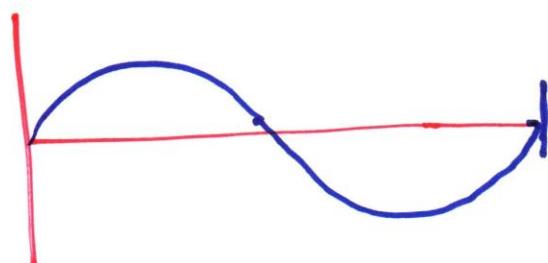
Topic

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1953  
ଓপାଟ୍ରମନ ଓ ପ୍ରିକ

→ 1963  
+  
ଡେଲାକ୍ଷନସନ  
ମାତ୍ରା

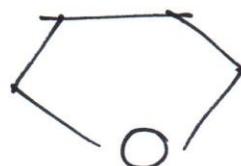
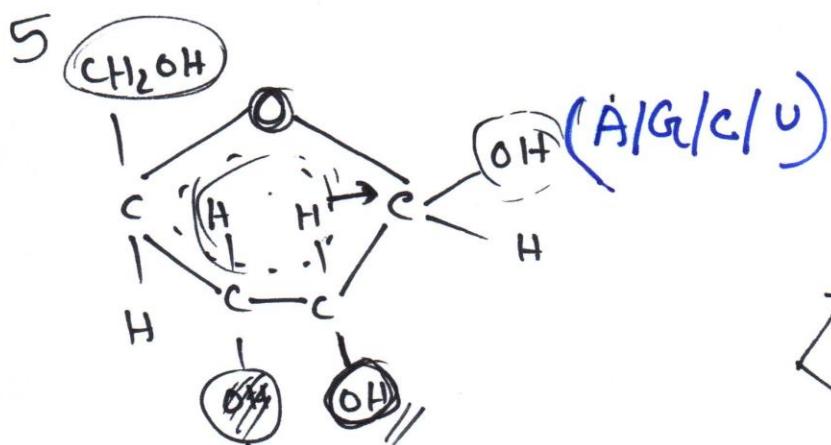


Batch: A B B' C

Subject: Biology Topic 08.1.21

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RNA  
 Ribo Nucleic Acid  
 $\downarrow$   
Ribose + A/G/C/U  
 $(5'-3')$



(3)

RNA (2π 5 σματά:

- ① Transfer RNA ( $t$  RNA)
- ② Messenger RNA ( $m$  RNA)
- ③ Ribosomal RNA ( $r$  RNA)
- ④ Genetic RNA ( $g$  RNA)
- ⑤ Minor RNA.

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Topic

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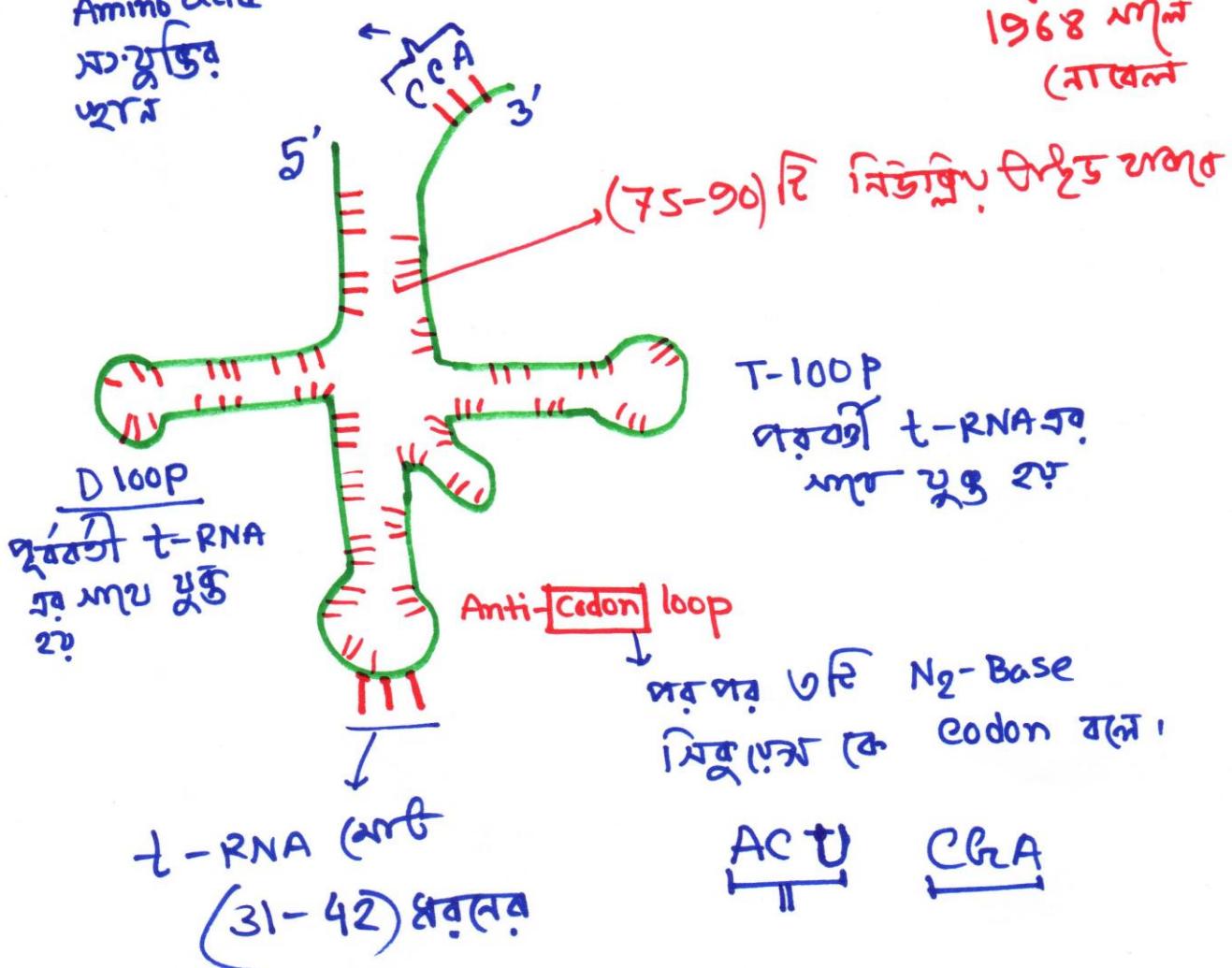
107

## Transfer RNA

(tRNA) = 15% (छाडे RNA)

→ अविकायक → R. Holley (1965) = Clover leaf  
वाला त्रिकोण पर मूल  
1968 में (ग्रन्थि)

Amino acid  
मान्युक्ति  
प्रतीक्षा



अण = 25,000 Dalton

Batch: BB2

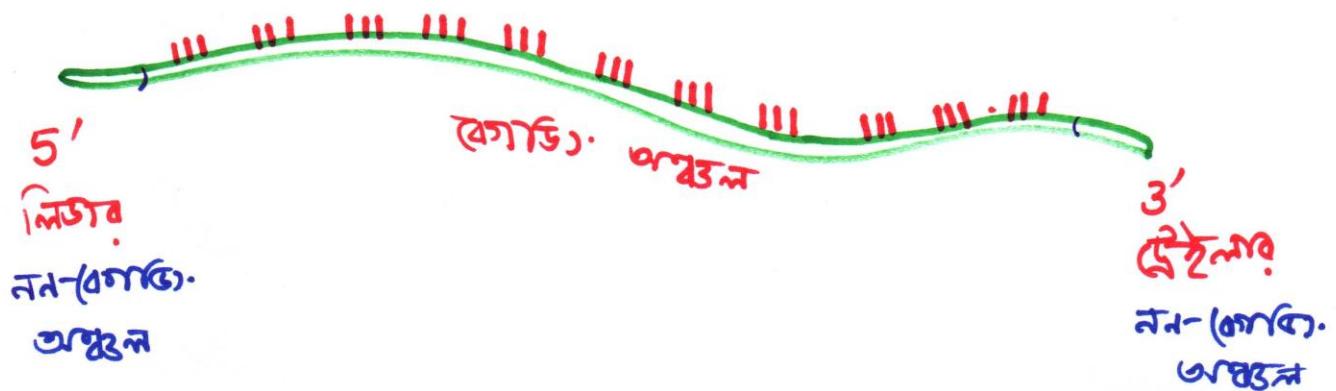
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## Messenger RNA

$$\text{mRNA} = (5-10)\% \text{ (of tRNA)}$$



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5

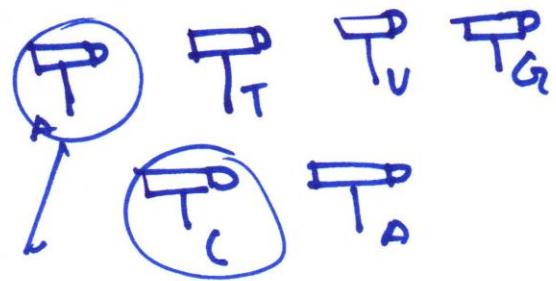
3

3

5

3

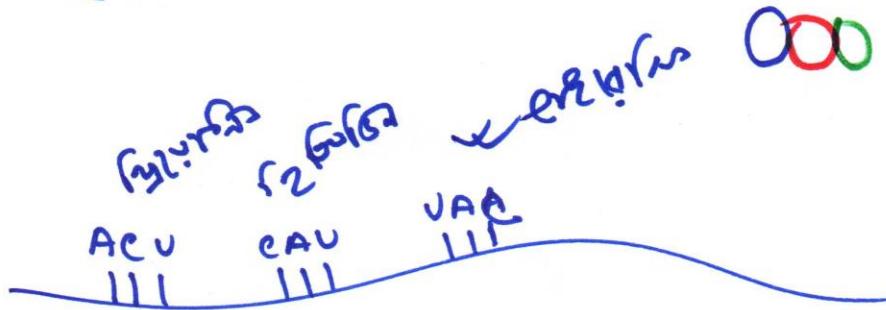
5



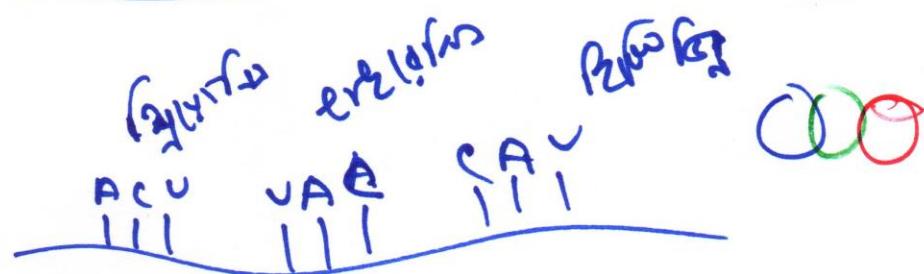
ACU

CAU

Mn. Rahim



Mn. Kamal



Batch:

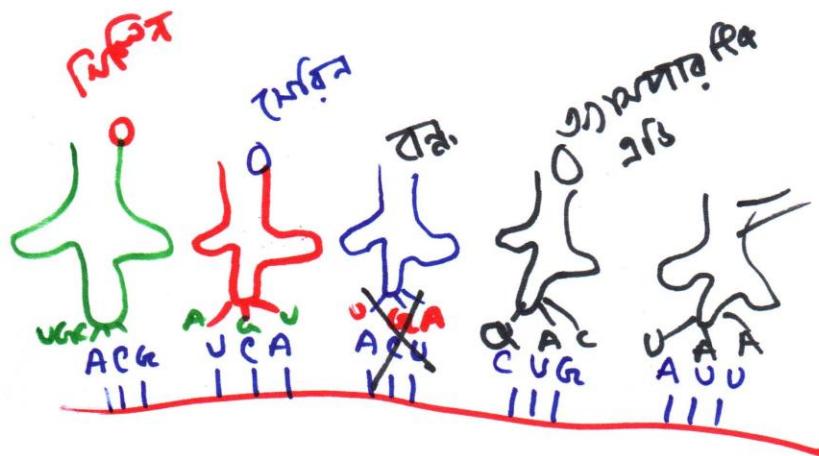
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(महत्वपूर्ण जानकारी —  
protein - रिप्रेसन



रिप्रेसन के द्वारा



protein

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Ribosomal RNA = (3000 fm निपेश्वर  
एर्जन्ट राक्त)

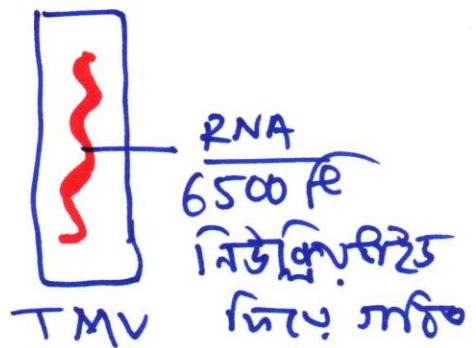
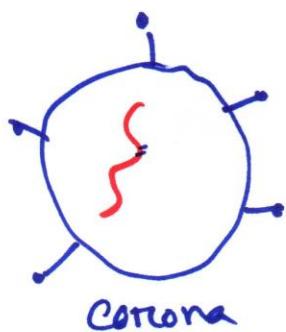
(rRNA) = 60% (एमीट RNA)

মোট রিবোসোমের অধিকাংশ গাঠনিক উপাদান

rRNA + protein = Ribo nucleic protein

কাত: ক্ষেত্রে অঙ্গাত্মক স্থানীয় এন্ডোস্যুল করা।

Genetic RNA  
(g RNA)



(Minor RNA)

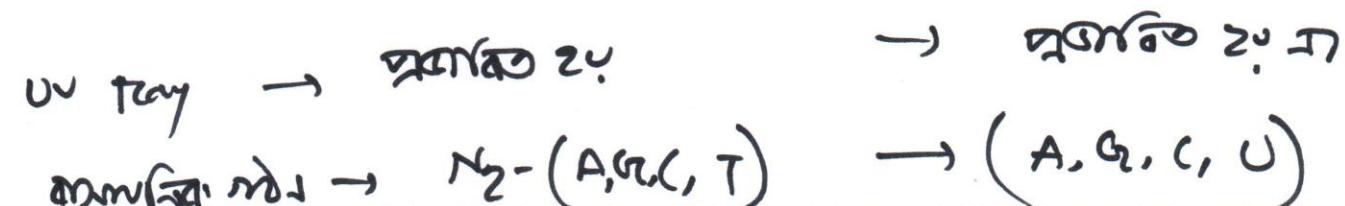
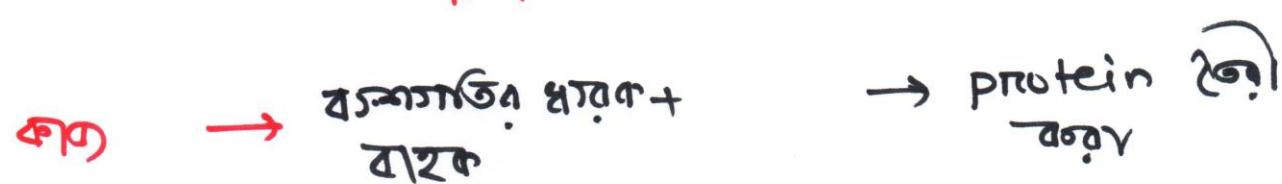
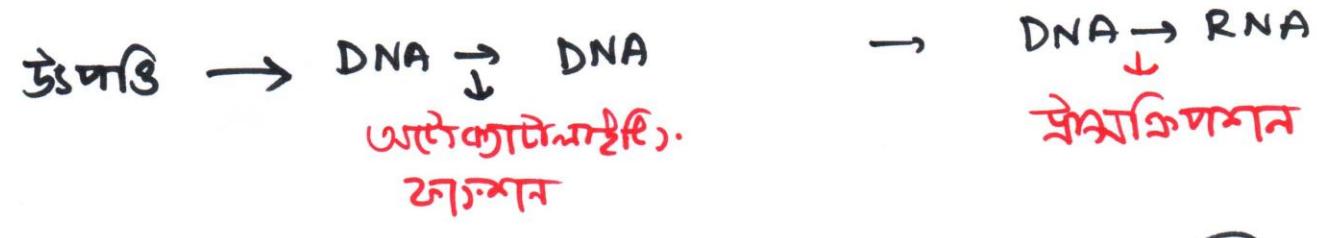
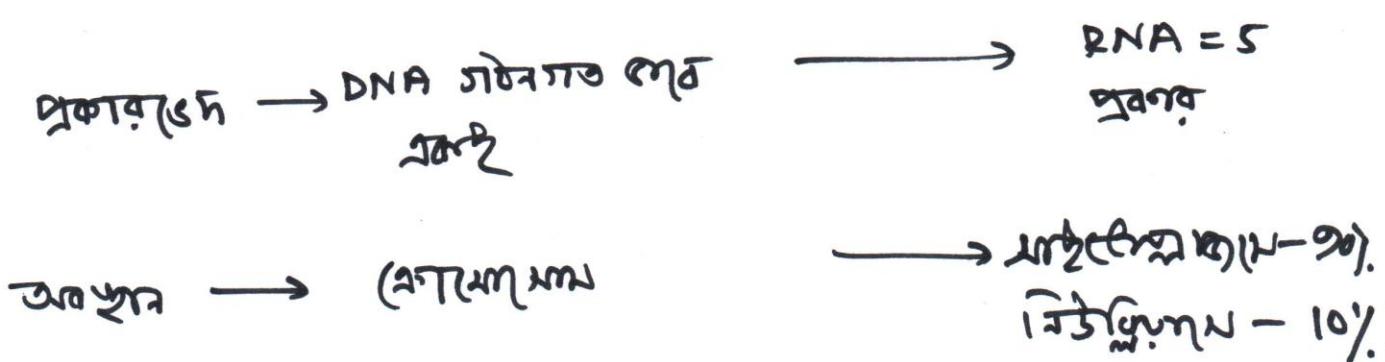
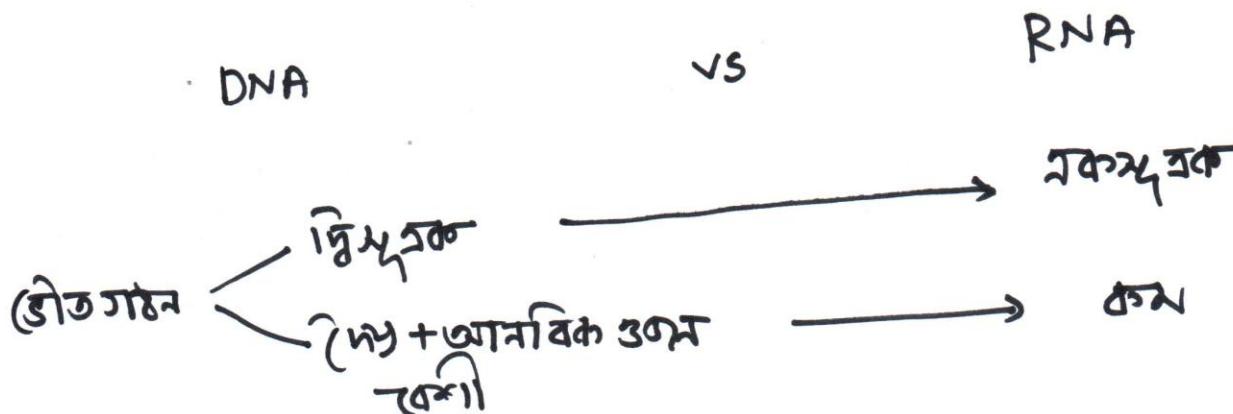
Enzyme, Hormone ইত্যাদি গাঠনিক উপাদান  
রিমাই করা।

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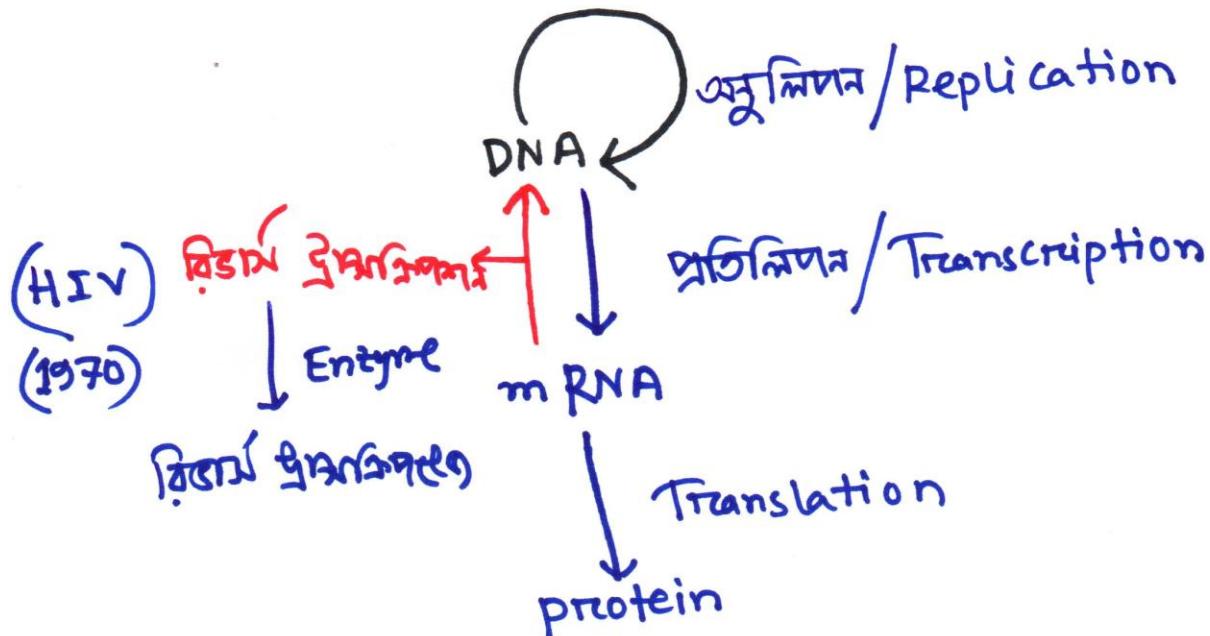


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Central Dogma of Biology

जीवाणुनवृ क्रम्भि प्रत्यज

उपाटमा (1958)

**Batch:**

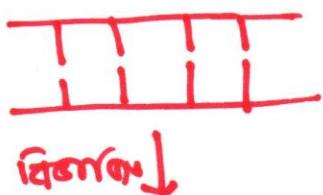
**Subject:**

## Topic

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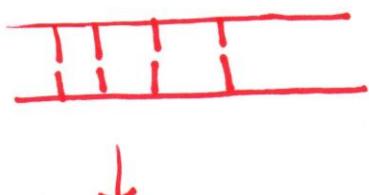
## Replication

અનુભૂતિ



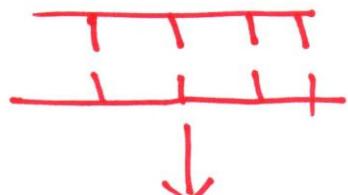
४८

अर्धमास्तु अवशील



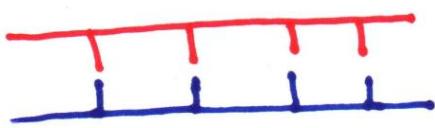
七

ବିଜୁତନାନୀଲ

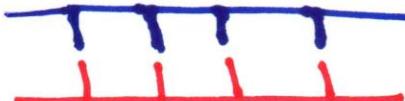


1

A red ladder diagram consisting of two parallel horizontal lines with four vertical rungs connecting them.



A handwritten number consisting of two vertical strokes connected by a horizontal bar at the top and a horizontal bar at the bottom.



1958 → रेप्रेसनेशन + मोर्टगेज

## E. coli ତୈଳମିଳ ପରିଧ୍ୟା

ମୁଦ୍ରା

1960- ସାହେବ

ପ୍ରକାଶକ

$$(1961) \rightarrow \frac{\text{मुद्रा} + \text{मुद्रा}}{1}$$

ମୁଦ୍ରାବ୍ୟକ୍ରିୟା

**Batch:**

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## **Topic**

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## Replication

## ପ୍ରଥାନୀପ ଉପକ୍ଷେଣ :

**প্রাথমিক উপকরণ:**

① অমোগু নিউক্লিওটেইড **স্টাইল** = {প্রাথমিক শাকি}

**dATP, dGTP, dCTP, dTTP**

## ⑪ ऐलेंज एंजायम Enzyme

III SSBP का एक DNA stand का ट्रांजॉड

## ନୀତିବିଜ୍ଞାନ ଲାଗତେ କ୍ଷେତ୍ର ନା

⑤ प्रारंभाव → प्रारंभक  
 ↓  
 RNA एवं Base मिलाया गया

## (vi) DNA polymerase

## VII DNA-ligase

Batch: **A + B + BYC** Subject:

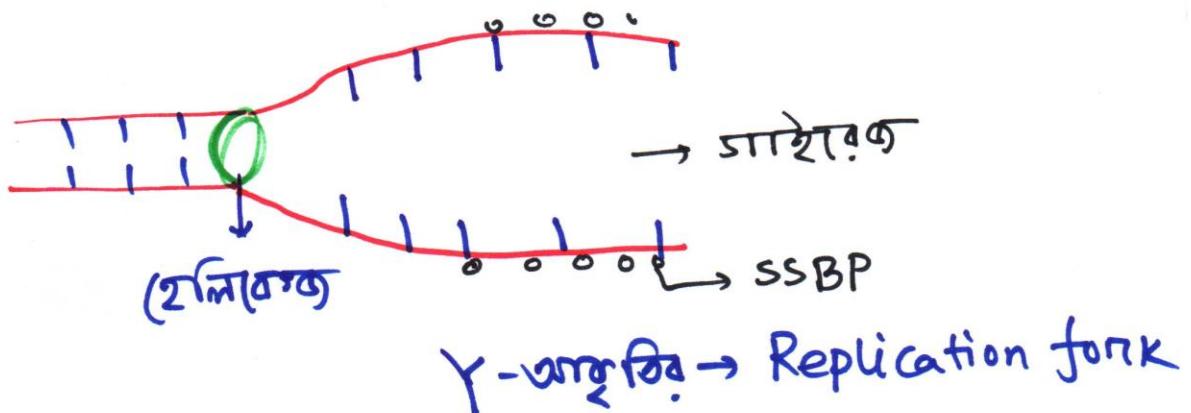
Topic

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① DNA - ଡାରଳ (ହେଲିକ୍) ଏବଂ ପରିପ୍ରକାଶ ହୁଅ ହାତ୍ ।

② ହେଲିକ୍ ଏବଂ ପରିପ୍ରକାଶ ହୁଅ ହାତ୍  
(ହେଲିକ୍ ଆଲାଦା ହାତ୍ ।

ସେ କିମ୍ବା (ଥାର୍) କାର୍ଟି ଶୁଣୁ ୨୫'-  
ସେ କିମ୍ବା ଖଚନ କିମ୍ବା / ORP ବଳେ ।



5'-3' ଶକ୍ତି ପ୍ରିମେର ହାତ୍ ହୁଅ ହାତ୍

ପ୍ରିମେର (UT RNA ହାତ୍ ହାତ୍) ହୈ ହାତ୍ ।



DNA polymerase →

Batch: **A + B + BC** Subject:

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## Transcription

DNA → mRNA

- DNA अनुत्ते प्राप्ति वास्तविक अन्यथा के RNA  
अनुत्ते करि कवाहि प्रक्रिया के Transcription एल.

गोपनीय शब्द: निष्ठापन

प्राप्तिपद्धति

Mono-cistronic

एकवाहि प्राप्तिपद्धति

एकाधिक ग्रेन्डि तेज़ी

कड़ा मसूर.

अनुत्तम.

poly-cistronic

एकवाहि प्राप्तिपद्धति

एकाधिक प्रोटीन

तेज़ी राहि मसूर.

आनियोग.

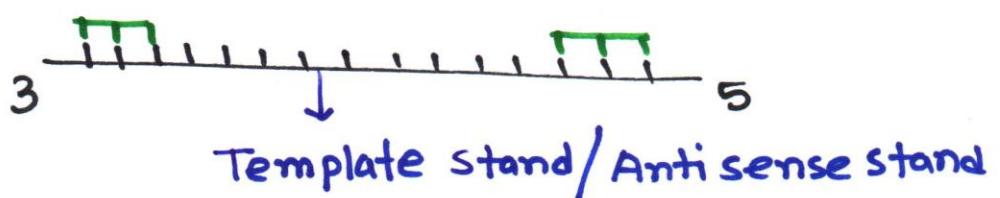
**Batch:**

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ଶୁଣ୍ୟପୂର୍ବ ଶାନ୍:



□ Transcription शब्द माध्यम से जीवन के प्रकाशटैट्स  
mRNA अनुत्त परिनियत रूप से प्रकाशटैट्स के  
Transcription Unit वस्तु.

⇒ Transcription ଶ୍ଵା ଅର୍ଜ ପ୍ରାଣନୀତିଃ

- ① DNA Template
  - ② RNA Polymerase
  - ③ मूक रायोनिक्सिप्टोटेज प्रोटीन्स.
  - ATP, GTP, CTP, UTP
  - ④ सहायी protein

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## द्वान्तांगिकाशरणः पार्ट्स : ३ ए

१. सूचना  
(Initiation)

① DNA Template - या प्रारंभि कोडवा फा) इतनी  
promoter भूमि है, जैसे promoter + ए  
RNA polymerase यहाँ पूछ देते हैं। जैसे  
promoter → निर्देश (यहाँ रकाऊ होते  
transcription start होते)  
(promoter + RNA polymerase) = DNA यहाँ पाक खुला  
(20 हि ब्रायन्ड्स में  
पाक खुला)

२. mRNA

यह अपेक्षु  
वर्णित करें

निटोक्रिप्ट चोटेड (ATP, GTP, CTP, UTP)

इंस्प्रेक्टिव शक्ति वाला DNA Template  
यह तरफ ( $3' - 5'$ ) stand भूमि है।  
stand यह वर्षा पर्ने गए,

३. समाप्तिकरण

DNA यह छाट/Template के निर्देश  
निर्माण अनुबन्ध, अनुकूलका अनुबन्ध होता  
RNA polymerase stand यहाँ पूर्वक  
है। प्रत्येकों लोर्मिनेशन यहाँ सिद्धांत  
होता रहता है और उसका यह mRNA (त  
द्वान्तांगिक है और उड़ानी वाला पार्ट्स होता है।

Transcription - यहाँ नृज्ञानविदि. ग्राहक (नहीं

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## mRNA টুকুকৃণ:

□ **Exon:** জীবের কোড়ি. অংশ যা প্রস্তুতিগত ২৫

□ **Introns:** জীবের ননকোড়ি. অংশ যা কম্বুন

প্রস্তুতিগত নয়।

□ **Splicing:** Introns রাখলে রেখে কাট দিয়ে

মুছ এখন শক্তির স্তোত্র মুক্ত হয়।

কোড়ি অফিলগু

**Splicing** কাল

Spleceosome



pre-mRNA + Small ribo-nucleo  
protein (SnRNPs)

দৈর্ঘ্যমূল: ক্যাপচ. → ল্যালি. → স্লুটিং. → pre-mRNA

→ টুকু mRNA

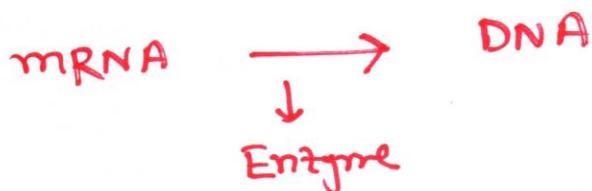
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## विटार्स प्रोक्रिप्शन



(Reverse Transcriptase)

एवं ग्रन्ति वाले वायरस ताहेड़ी  
एवं ग्रन्ति वाले वायरस ताहेड़ी  
जैव वायरस : HIV  
Retrovirus वाले, जैविक : HIV

corona virus (R.T.E) → DNA → PCR एवं माइग्रेशन  
(RNA virus) कीवायू शब्दावली  
एवं उपकरण,

{ E. coli Bacteriatis शब्दों लिखें 1000 टि }  
निक्षिप्त स्टेप्स प्रोक्रिप्शन इति 1 दसकान्तु  
मूल लाग

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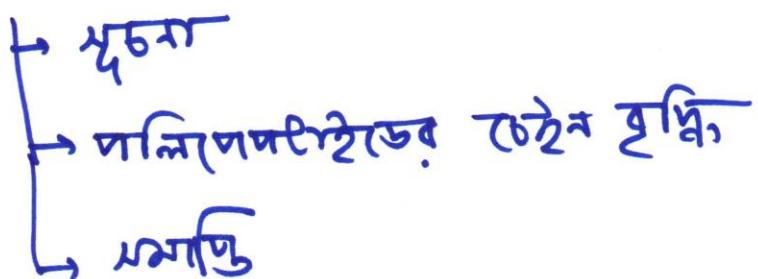
## Translation

mRNA → protein

DNA द्वारा उत्पन्न mRNA ने प्रोटीन के लिए मार्गदर्शन करता है।  
उत्पन्न प्रोटीन का अविभाज्य उत्तराधिकारी होता है।

मुख्य बहुतायलूम : मार्गदर्शक

पर्याय : 3 दो



□ Antibiotic और Translation में यात्यरूपिकाएँ

पर्याय :

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## जिन (Gene)

प्रायोगिक लोग्गर अणुचि DNA असूऱ्या  
 युनिटचे मिळाला चा तीव्र एकाच निर्दिष्ट  
 कार्यकृत वाक्त आवश्यक असू एका अंदिन विषय  
 अख्याप्रकाश असू.

प्रकाशनात्मक असू एकाच.

एकाच जीवना - हिन्ही जीवना अविकारक  
 जावल - एकाच नवा मत्तवाद

जीवनव छात्र → protein

### जिन प्रवर्णनाचे एकाच:

ट्रॅक्चन : जिन Recombination एवढे एकाच

मिडेन : जिन मिडेन एकाच

ट्रेप्लिकेशन : Replication एवढे एकाच

प्रिप्पोर्ट : जिनव उपर्युक्त एकाच

E. coli एवढे एकाच मिडेन 1500 फॅटिंग्स घेऊन

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ଚିତ୍ରିତ ସମ୍ବନ୍ଧ କୀନି :

ଲିଂଗାଳ କୀନ / ହାତକ କୀନ / ଶାରୀ କୀନ / ମିଡ଼େଲିକୀନ

Oncogene = ଏ କୀନୟ କାରଣ Cancer ହେବି ୧୦<sup>୫</sup>

ରେଣ୍ଟ୍ର ପାରାପାରାମାର୍କ = ମେଲ୍ ଫ୍ରୋମାର୍କ୍ସ ଏ ପକଳ କୀନ  
ଶରୀରରେ , Hemophilia, N.B  
କୀନ =

ପ୍ରୋଗ୍ରାମୀନ = ଏକ ଅଭିଭାବକ କୀନ  
ଅନ୍ୟ ଅଭିଭାବକ

ଶକ୍ତି କୀନ = Intro + Exord ପରିମାତ୍ର  
ଜାଗିତ କୀନ

ମିଡ଼େଲିକୀନ = DNA ଏ ଏ ଅବଶ୍ୟକ ନିର୍ମିତ ବାଟ

ଲିଙ୍କାଫ୍ଟ କୀନ = ପ୍ରଦେଶ କୀନ ପାରାପାରାମାର୍କ ଏବଂ  
ବାତଙ୍କ ଅବଶ୍ୟକ ବାଟ .

Batch:

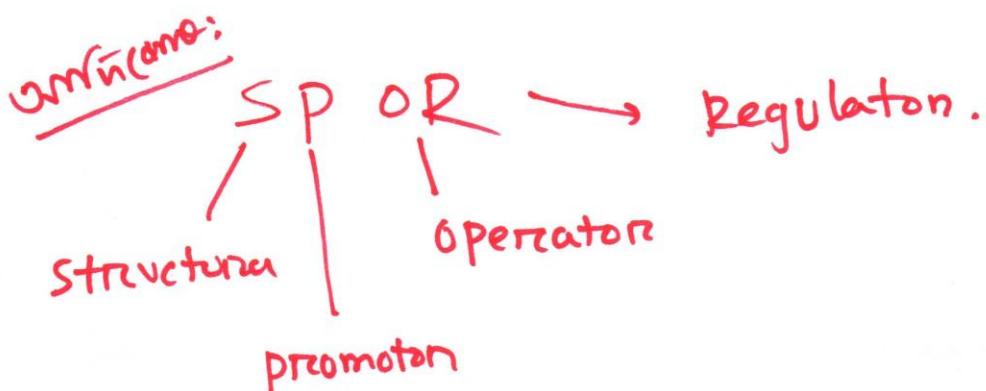
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સ્કૂલ કોર્સ નાનાનું ક્રમી લીન અને  
 (૨૦૬૫ રૂ.) એ. Y ક્રમાણાં નાનાં  
 ક્રમાણાં અને (૨૦૧) રૂ.

શુદ્ધ લીન નિર્દેખિયાં નાનાં ૧૧ રૂ.  
 રૂ.૨૩૮ " " " ૨૦,૮૦૦ રૂ



- સ્ક્રિપ્ટાં:
- ① પ્રૈન્ટિંગ
  - ② mRNA આયાની.
  - ③ ક્રિકાલાન
  - ④ ક્રિકાલાન જાદુષી નિર્મા.
  - ⑤ ફિલોગ્ય

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"ক্রনিক কোড"

বাংলাতে Biochemical ডিপি।

কোড: mRNA অঙ্ক ধারণাটির অনুসরে  
গতিরেক শব্দ মোড়ে রেখে।

v (ৰে) হলো ৬৪ ধরনের codon ওল্লে।

প্রিসেলেন্স: গতি (বাংলা বার্ণনা) উভয়ের প্রিসেলেন্স

5' - 3'

ক্রনিক ট্রিনিটির নথ মূল নথ

Start codon → AUG

Stop codon — UAA, UAG, UGA