



# BIOLOGY

## BOOKS - CBSE COMPLEMENTARY MATERIAL BIOLOGY (HINGLISH)

### MOLECULAR BASIS OF INHERITANCE

#### Questions Vsa

1. Name the factors for RNA polymerase enzymes which recognises the start and

termination signals on DNA for transcription process in Bacteria.



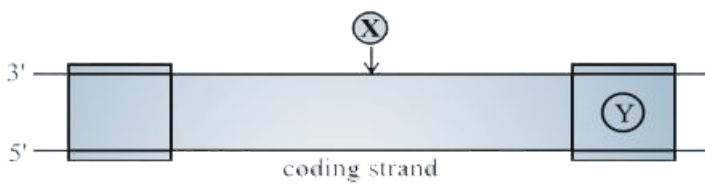
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2. RNA viruses mutate and evolve faster than other viruses. Why?



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3. Name the parts 'X' and 'Y' of the transcription unit given below.



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4. Name the two initiating codons

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5. Write the segment of RNA transcribed from the given DNA

3'-ATGCAGTACGTCGGTA-5'-Template Strand

5'-TACGTCATGCAGCAT-3'-Coding Strand.

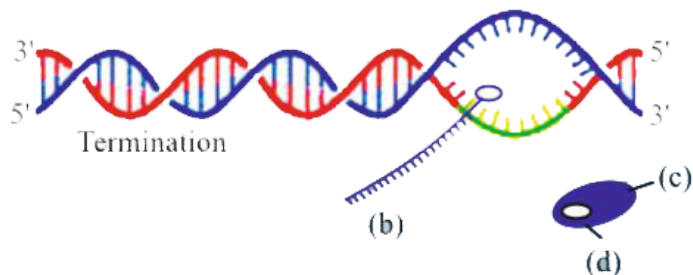


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## Questions Sa I

1. The process of termination during transcription in a prokaryotic cell is being

represented here. Name the label a,b,c and d.



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2. give two reasons why both the strand of DNA are not copied during transcription.

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3. State the 4 criteria which a molecule must fulfill to act as a genetic material.



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## Questions Sa li

1. Give six points of difference between DNA and RNA in their structure chemistry and function.



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2. Explain how does the RNA becomes the mRNA.

OR

Explain the process of splicing, capping and tailing which occur during transcription in Eukaryotes.



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3. Name the three major types of RNAs, specifying the function of each in the

synthesis of Polypeptide.



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4. A tRNA is charged with the aminoacid methionine.

(i) Give the anti-codon of this tRNA.

(ii) Write the codon for methionine.

(iii) Name the enzyme responsible for binding of aminoacid to tRNA.



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