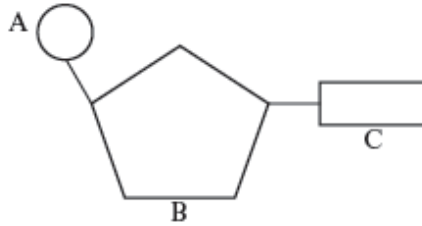


My Question Paper

1. (a) The diagram below shows a unit which makes up nucleic acids.



(i) Name the structural unit shown.

[1]

.....

(ii) Name component A.

[1]

.....

(iii) Name component B in DNA and RNA.

[1]

DNA

RNA

(iv) Name the four components found in DNA, represented by C.

[2]

.....

.....

(b) Describe how the structural units, drawn in part (a), are arranged in DNA molecules.

[4]

.....

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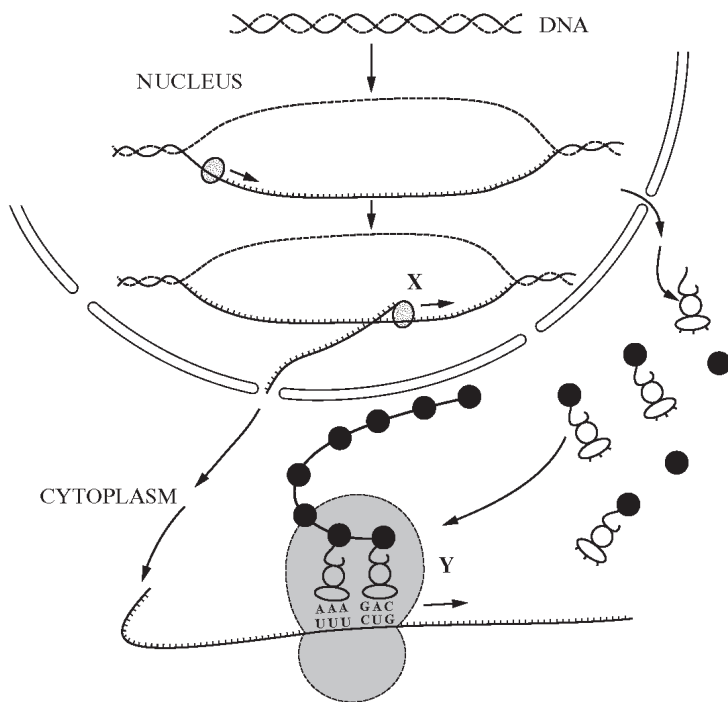
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(c) Describe the function of DNA molecules in cells.

[1]

2.

The diagram represents stages of protein synthesis.



(a) (i) Give the name of the processes taking place at X and Y. [2]

X

Y

(ii) On the diagram label the following structures using clear lines and the letters given. [8]

- M = messenger RNA
- N = nuclear pore
- O = RNA polymerase
- P = codon
- Q = ribosome
- R = transfer RNA
- S = three hydrogen bonds between complementary bases
- T = template/sense strand of DNA

