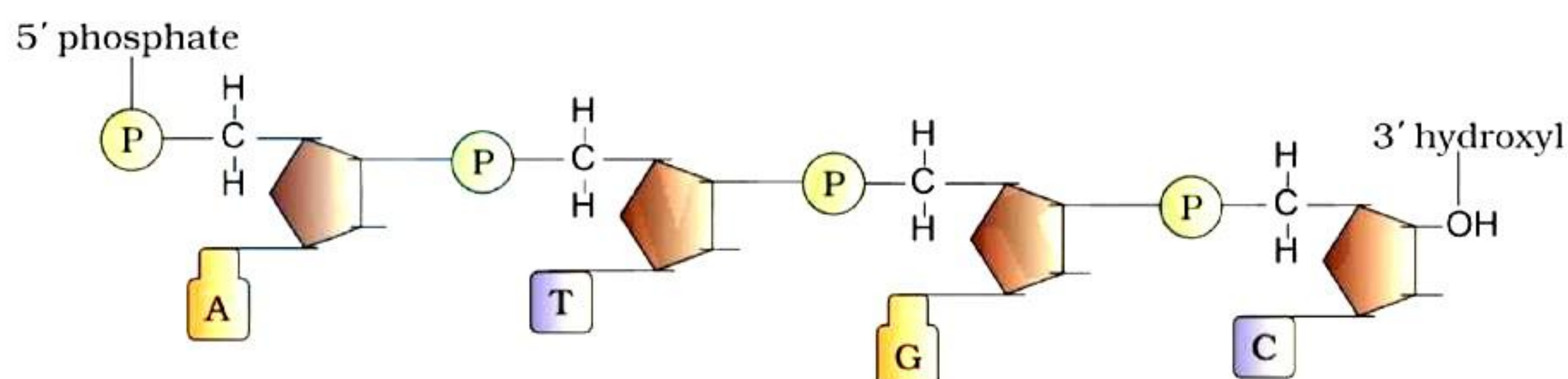


# Molecular Basis of Inheritance

## Set – 1

Q1. What does the given figure represent?

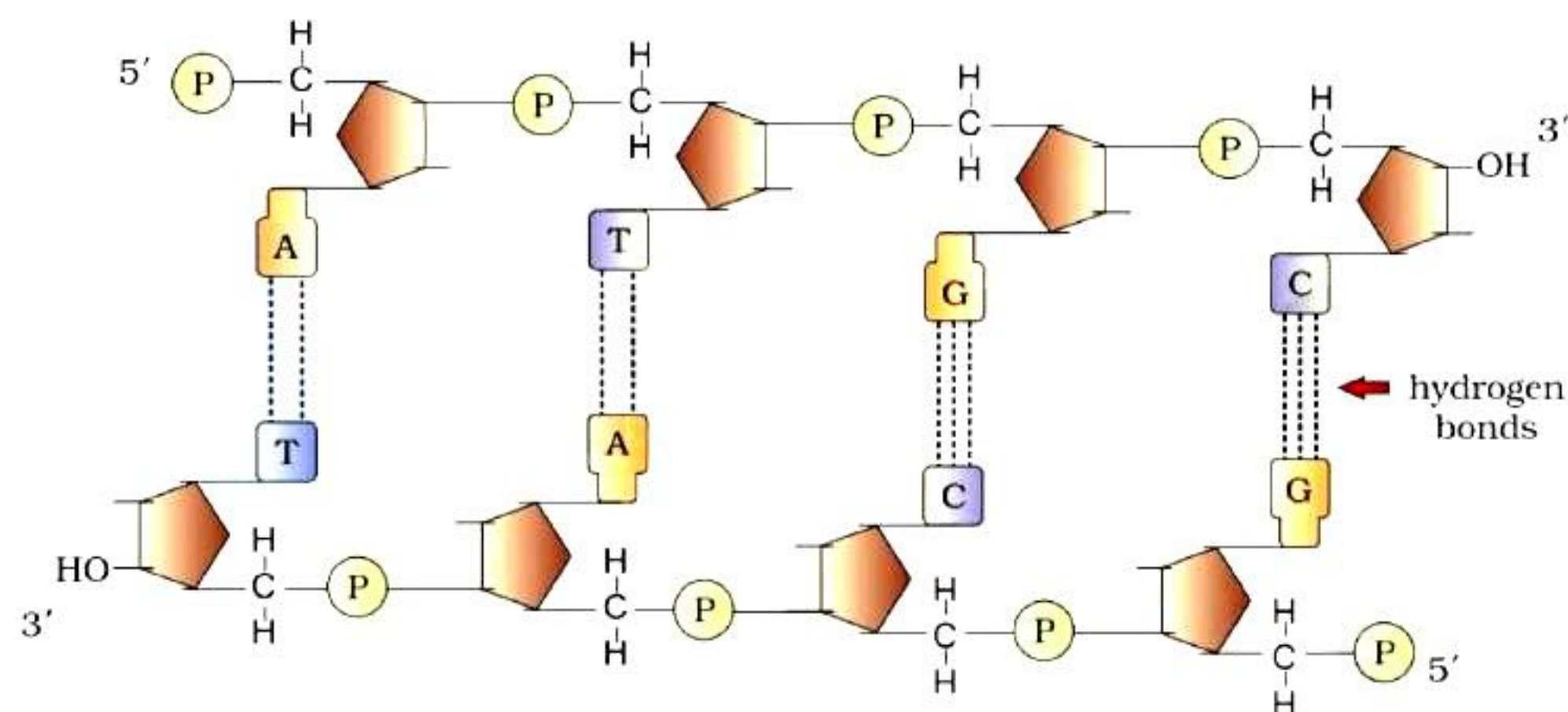


- A. A polypeptide chain
- B. A polynucleotide chain
- C. An amino acid chain
- D. None of the above

Ans. (B)

## Set – 2

Q1. What does the given figure represent?

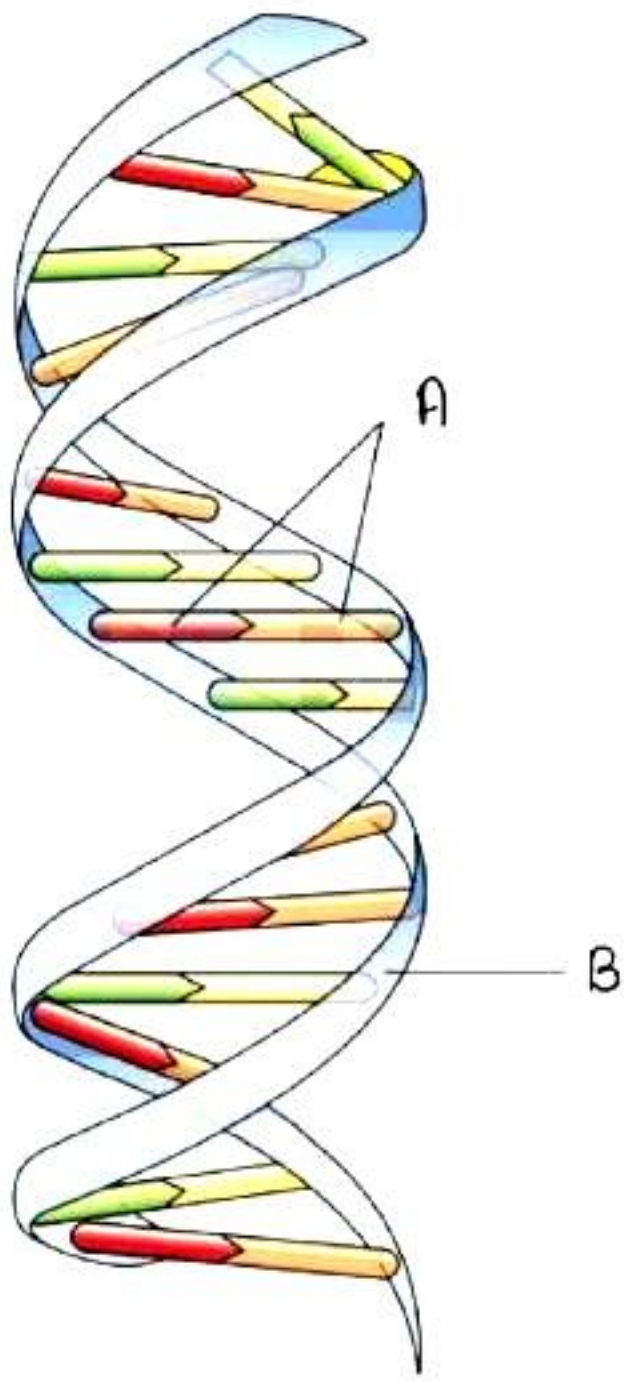


- A. a polynucleotide chain
- B. double stranded polynucleotide chain
- C. a polypeptide chain
- D. double stranded polypeptide chain

Ans. (B)

## Set – 3

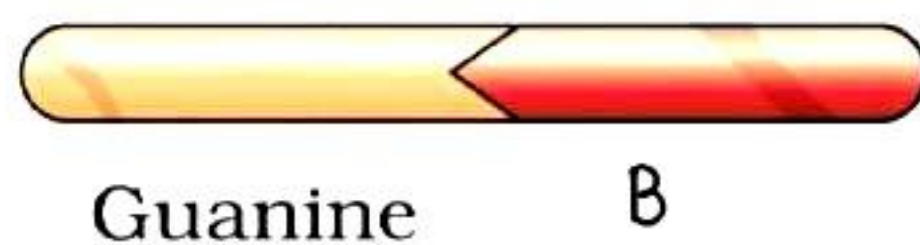
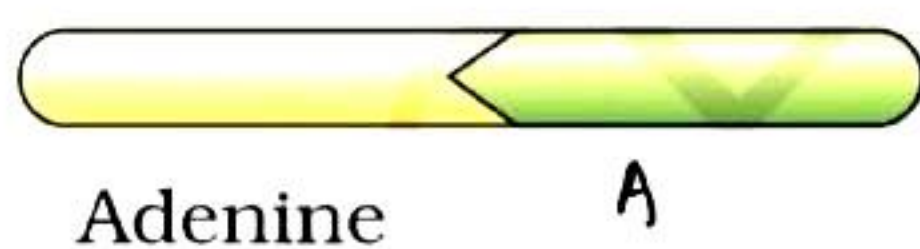
Q1. What does the A and B in the given figure represent?



- A. base pairs, sugar-phosphate backbone
- B. sugar-phosphate backbone, base pairs
- C. Adenine, thymine
- D. Guanine, cytosine

Ans. (A)

Q2. What does A and B represent in the following figure?

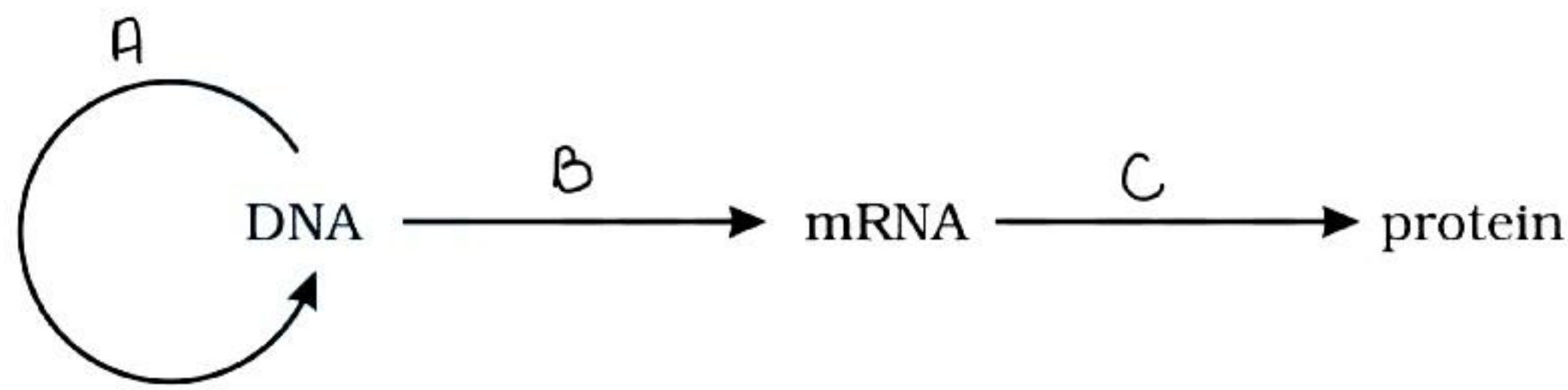


- A. Thymine, Cytosine
- B. Uracil, Guanine
- C. Cytosine, Thymine
- D. Thymine, Uracil

Ans. (A)



**Q3. What does A, B and C in the given figure represent?**

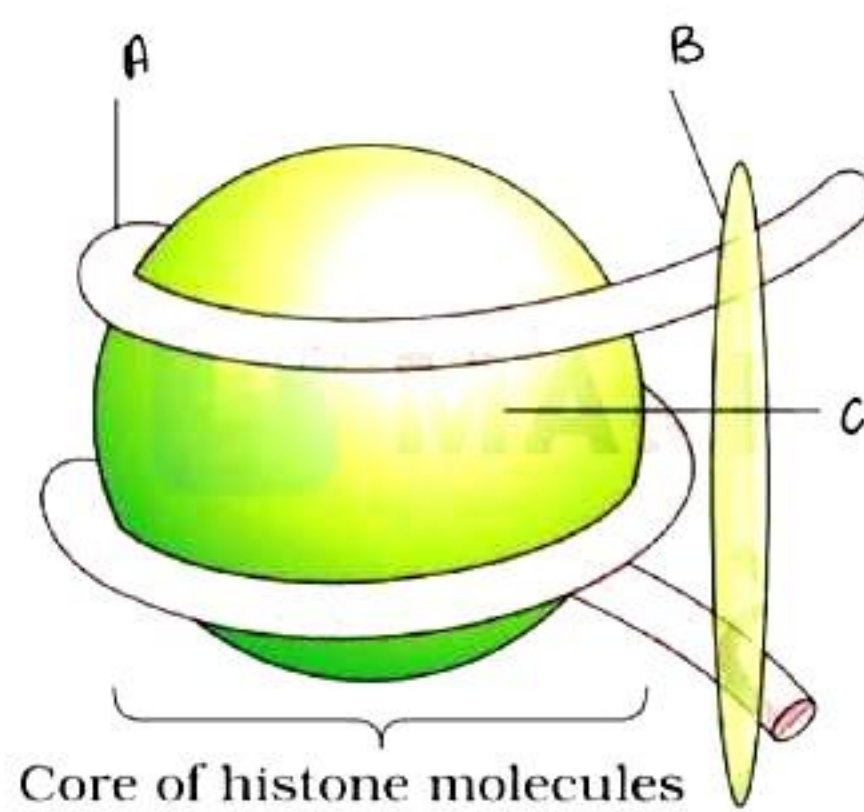


- A. Replication, Translation, Transcription
- B. Replication, Transcription, Translation
- C. Transcription, Translation, Replication
- D. Translation, Replication, Transcription

**Ans. (B)**

### Set – 4

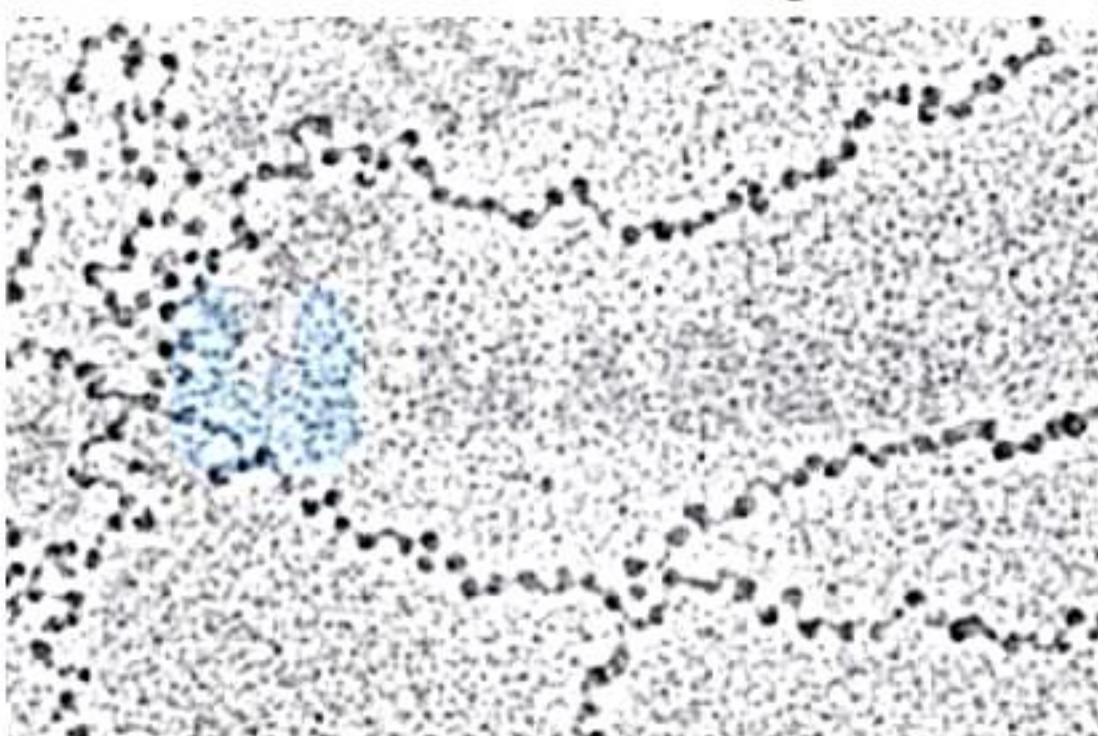
**Q1. What does A, B and C represents in the given figure?**



- A. DNA, H1 histone, Histone octamer
- B. H1 histone, DNA, Histone octamer
- C. Histone octamer, DNA, H1 histone
- D. DNA, Histone octamer, H1 histone

**Ans. (A)**

**Q2. What does the given image represent?**

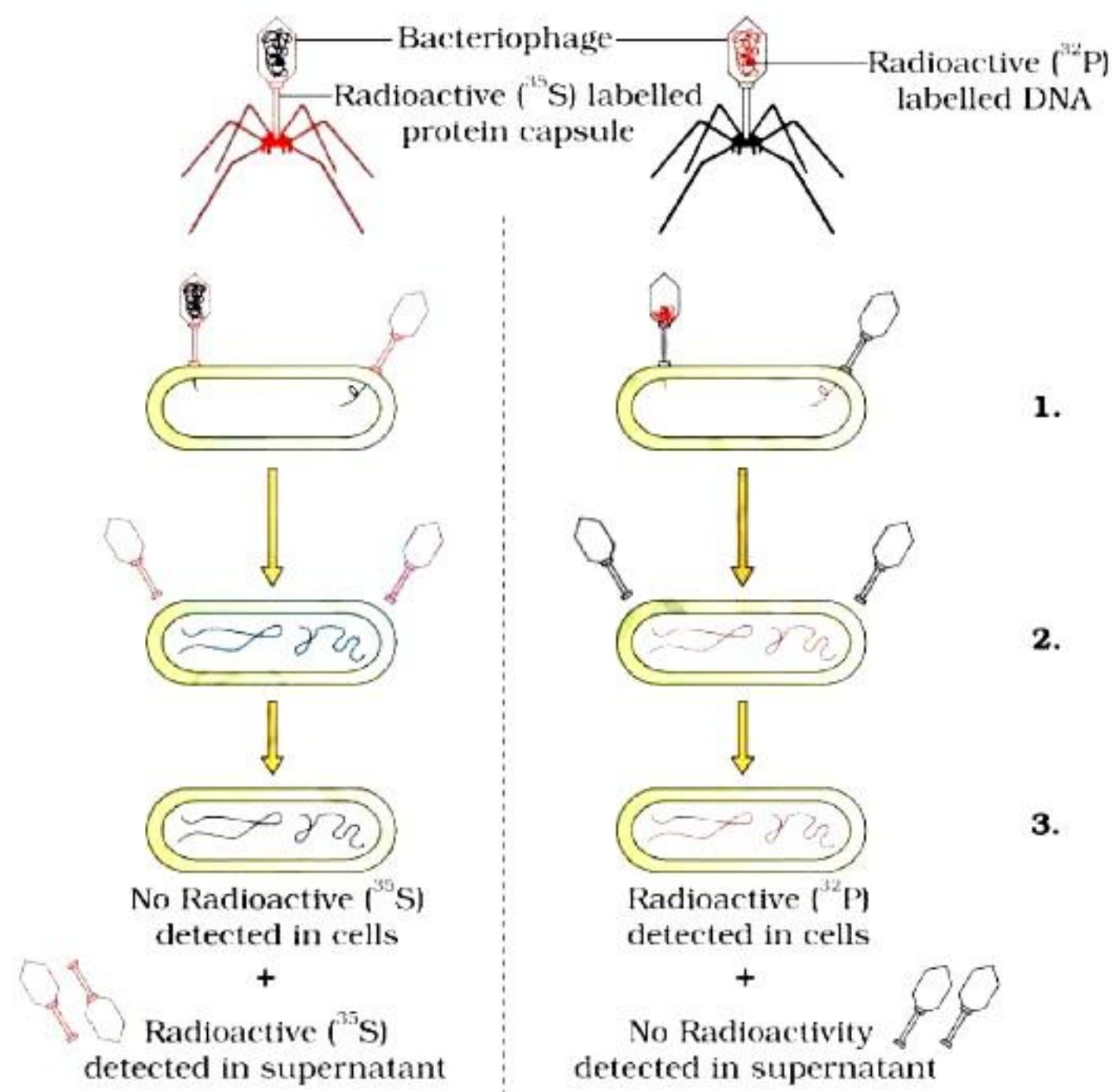


- A. EM picture - beads on string
- B. MRI picture - string on bead
- C. EMI picture - beads on string
- D. MRI picture - beads on string

Ans. (A)

### Set – 5

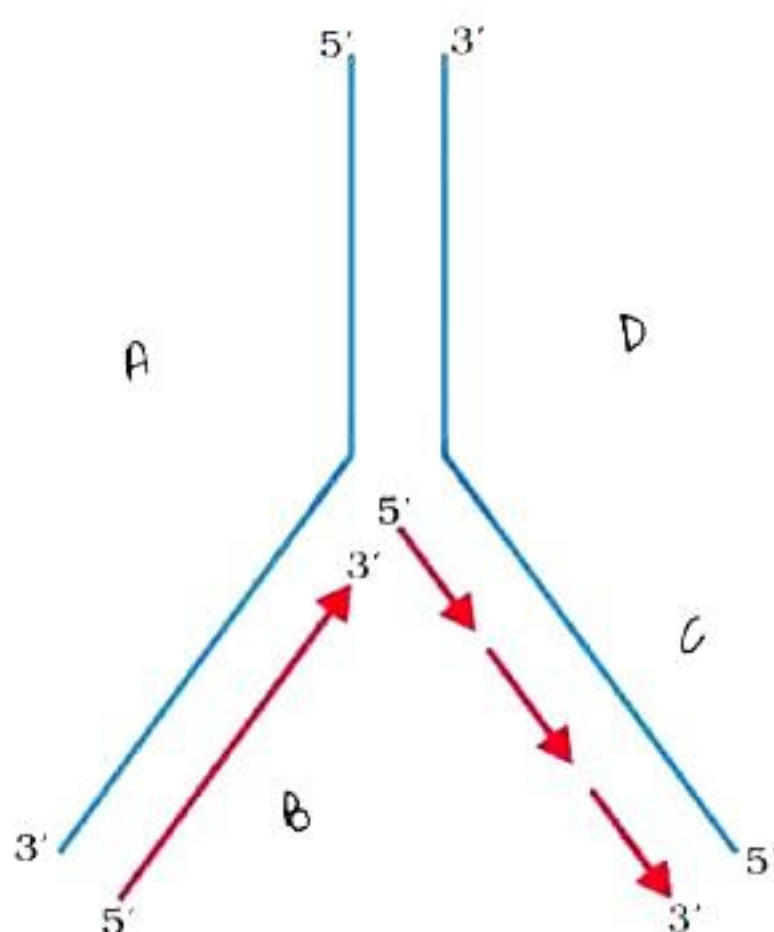
Q1. What does 1,2 and 3 represent in the following image?



- A. Infection, blending, centrifugation
- B. centrifugation, blending, infection
- C. infection, centrifugation, blending
- D. blending, infection, centrifugation

Ans. (A)

Q2. What does A, B, C and D in the following figure represents?

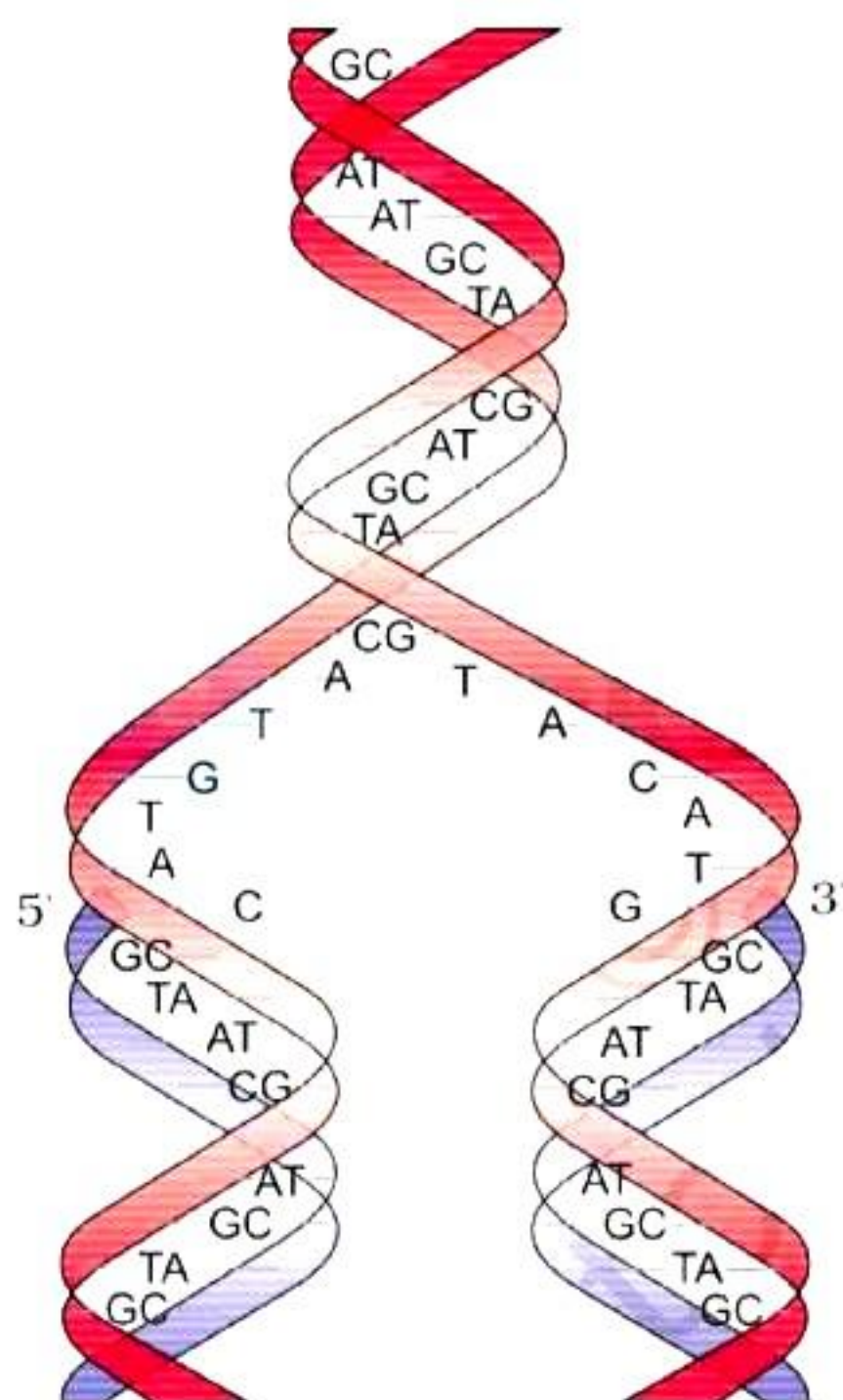


- A. Continuous synthesis, Newly synthesised strands, Discontinuous synthesis, Template DNA
- B. Template DNA, Discontinuous synthesis, Newly synthesised strands, Continuous synthesis
- C. Newly synthesised strands, Continuous synthesis, Discontinuous synthesis, Template DNA
- D. Template DNA, Discontinuous synthesis, Continuous synthesis, Newly synthesised strands

**Ans. (A)**

### Set – 6

**Q1. What does the given figure represent?**

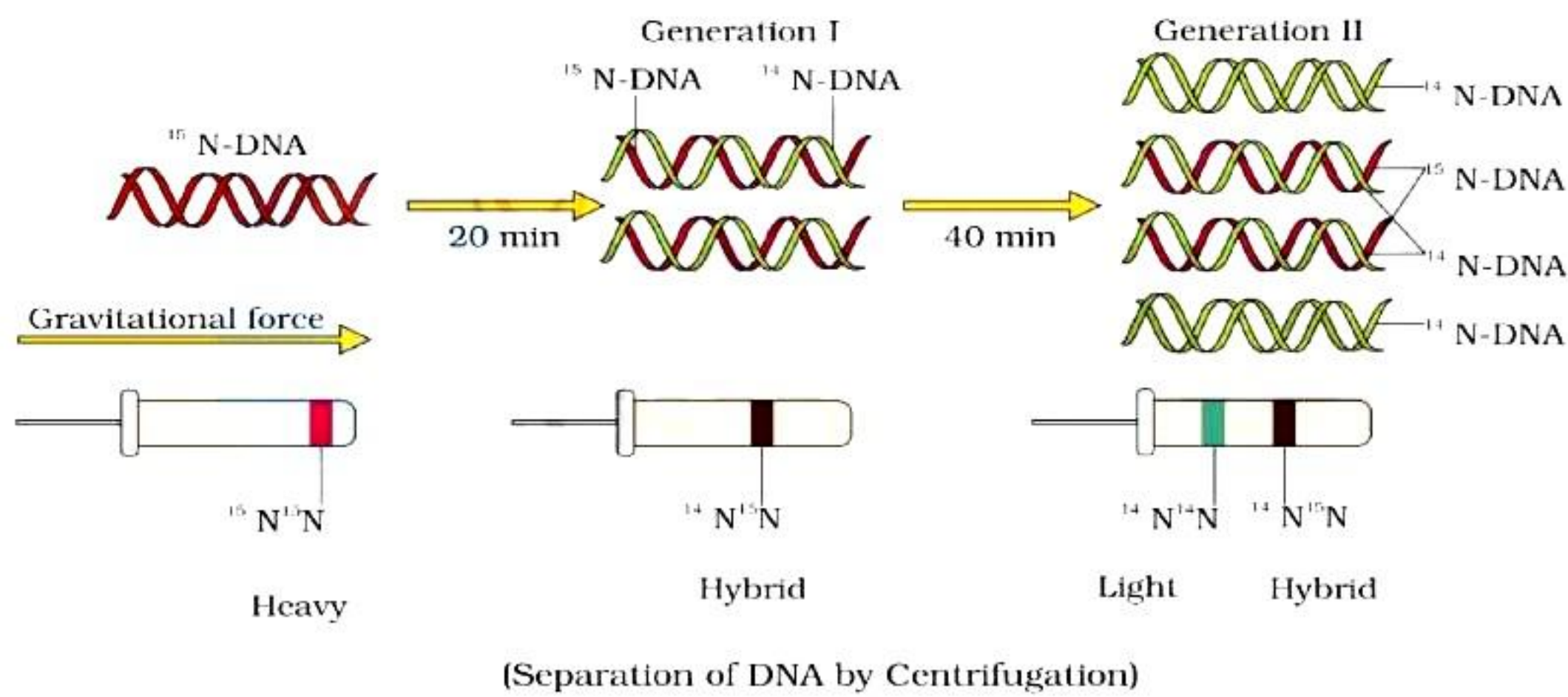


- A. Medel model for semi-conservative DNA replication
- B. Watson and Crick model for semi-conservative DNA replication
- C. Watson and Crick model for conservative DNA replication
- D. DNA structure

**Ans. (B)**

## Set – 7

Q1. What does the following figure represent?

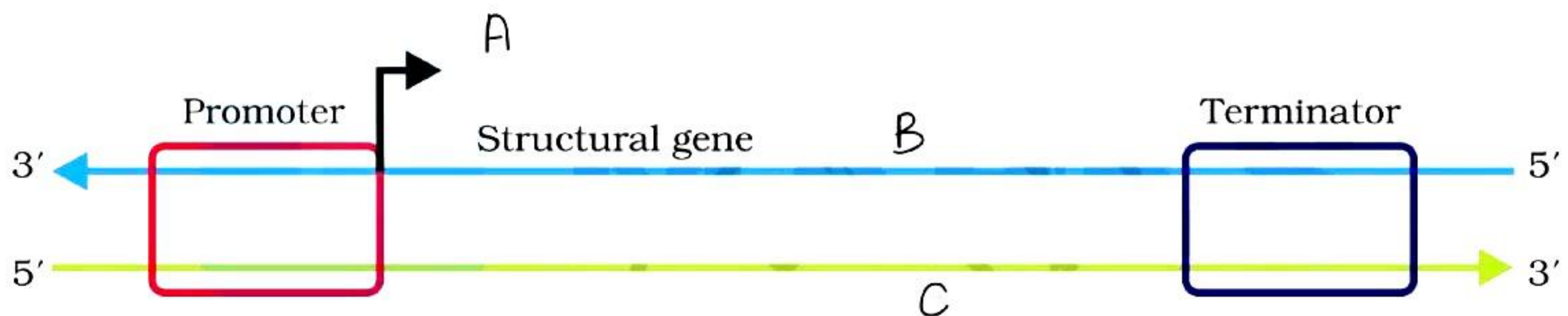


- A. Meselson and Stahl's experiment
- B. Watson and Crick experiment
- C. Mendel's experiment
- D. None of the above

Ans. (A)

## Set – 8

Q1. What does A, B, and C represent in the given figure?

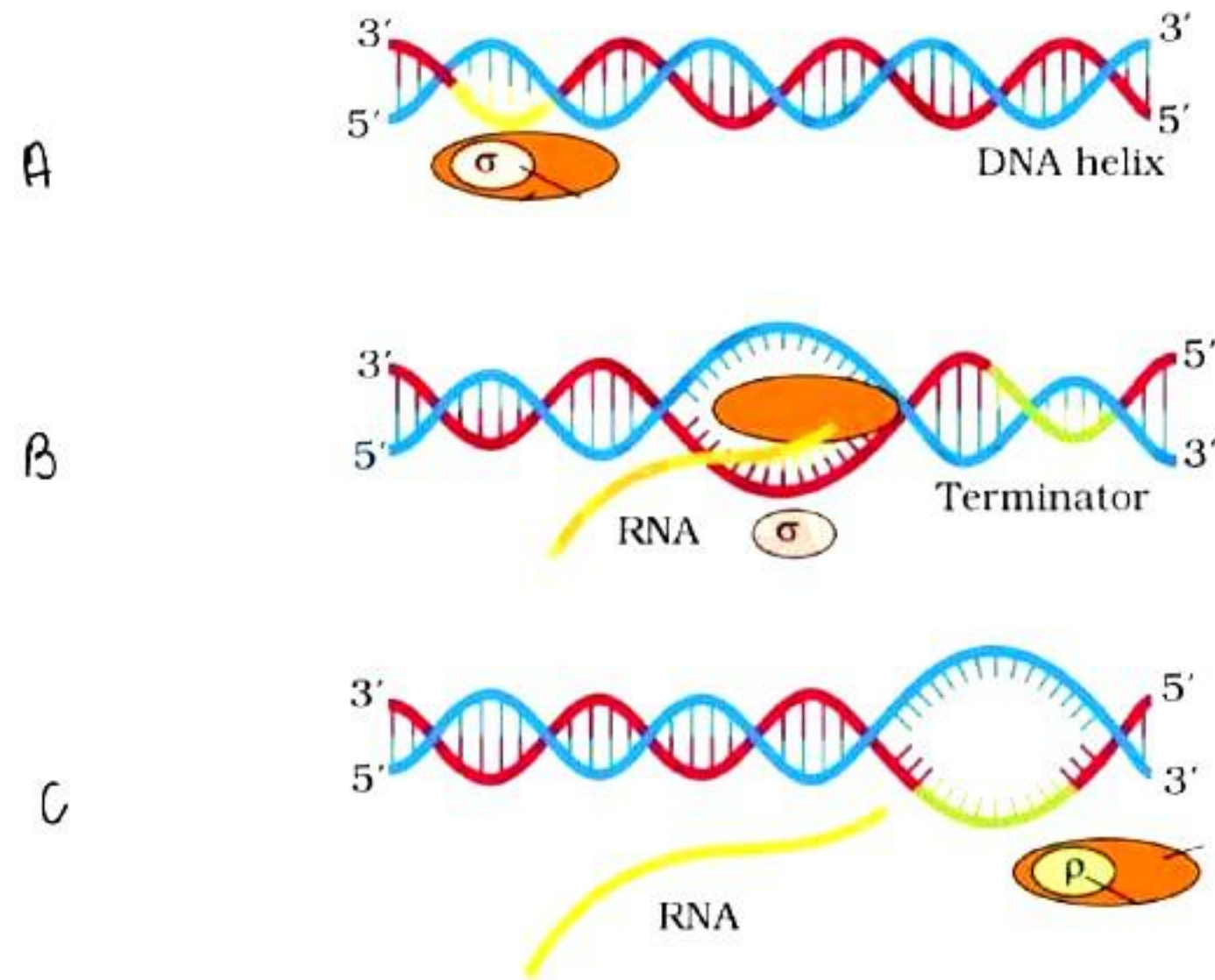


- A. Transcription start site, Coding strand, Template strand
- B. Transcription start site, Template strand, Coding strand
- C. Template strand, Transcription start site, Coding strand
- D. Coding strand, Template strand, Transcription start site

Ans. (B)

## Set – 9

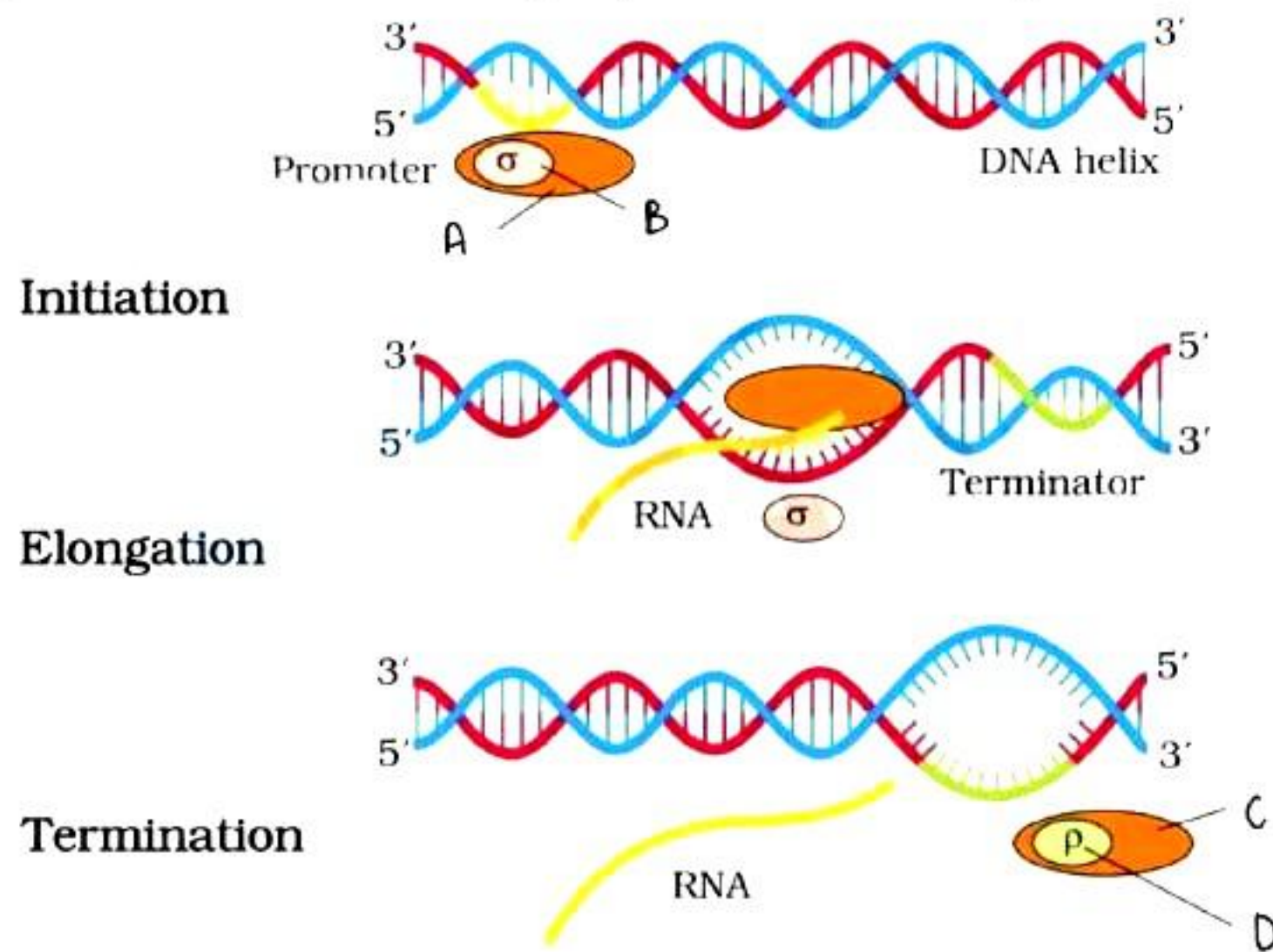
**Q1. What does the given figure represent?**



- A. Process of translation in bacteria
- B. process of transcription in bacteria
- C. process of replication in bacteria
- D. none of the above

**Ans. (B)**

**Q2. What does A, B, C and D represent in the given figure?**

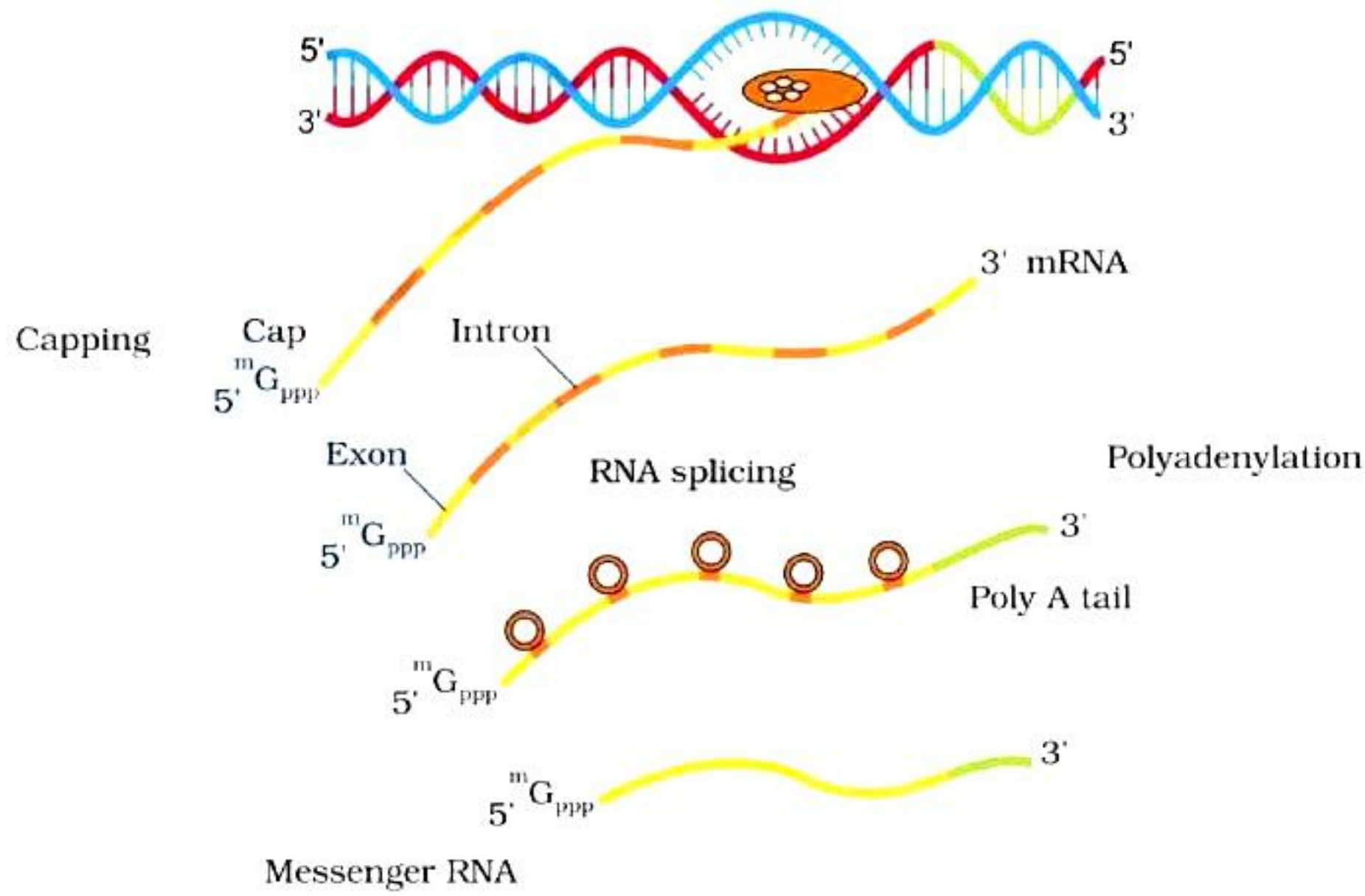


- A. Sigma factor, RNA polymerase, Rho factor, RNA polymerase
- B. RNA polymerase, Sigma factor, RNA polymerase, Rho factor
- C. RNA polymerase, Rho factor, RNA polymerase, Sigma factor
- D. None of the above

**Ans. (B)**

## Set – 10

Q1. What does the given figure represent?

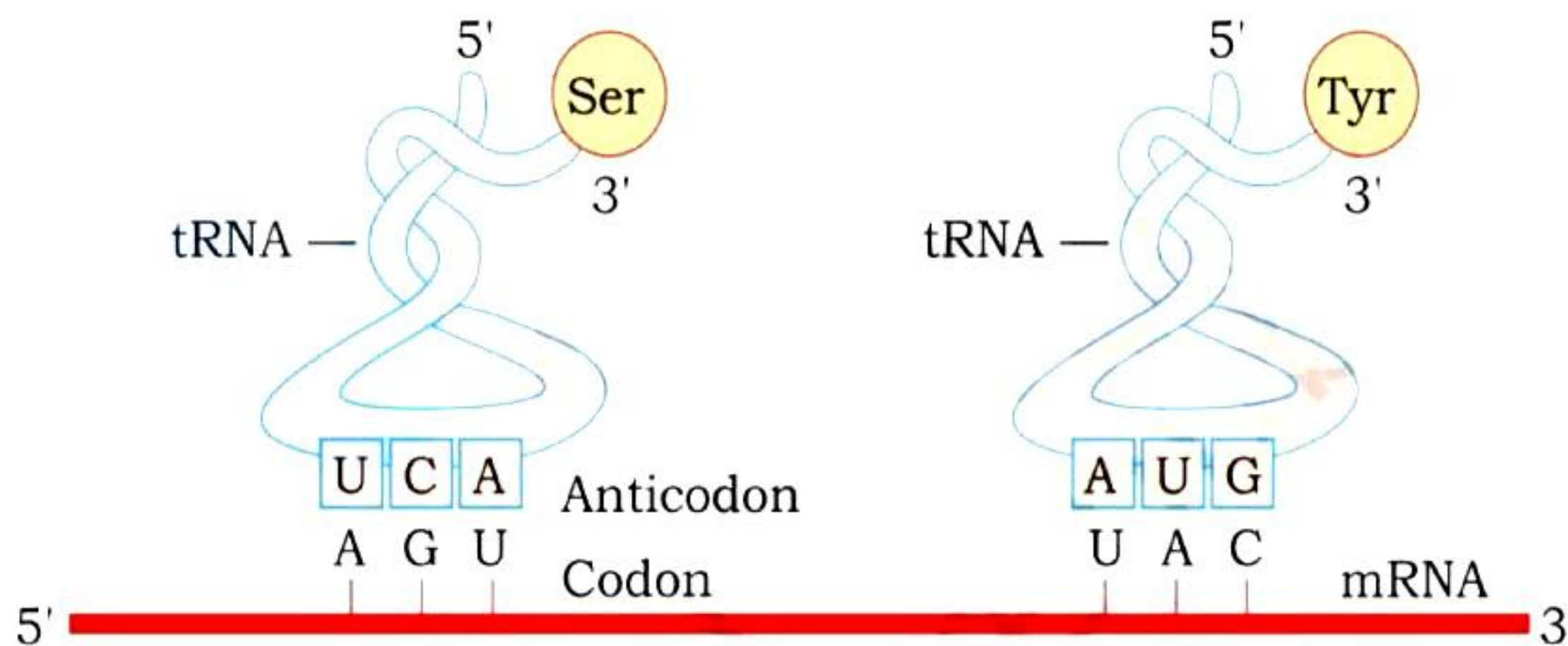


- A. Process of translation in eukaryotes
- B. process of transcription in eukaryotes
- C. process of replication in eukaryotes
- D. none of the above

Ans. (B)

## Set – 11

Q1. What does the given figure represent?



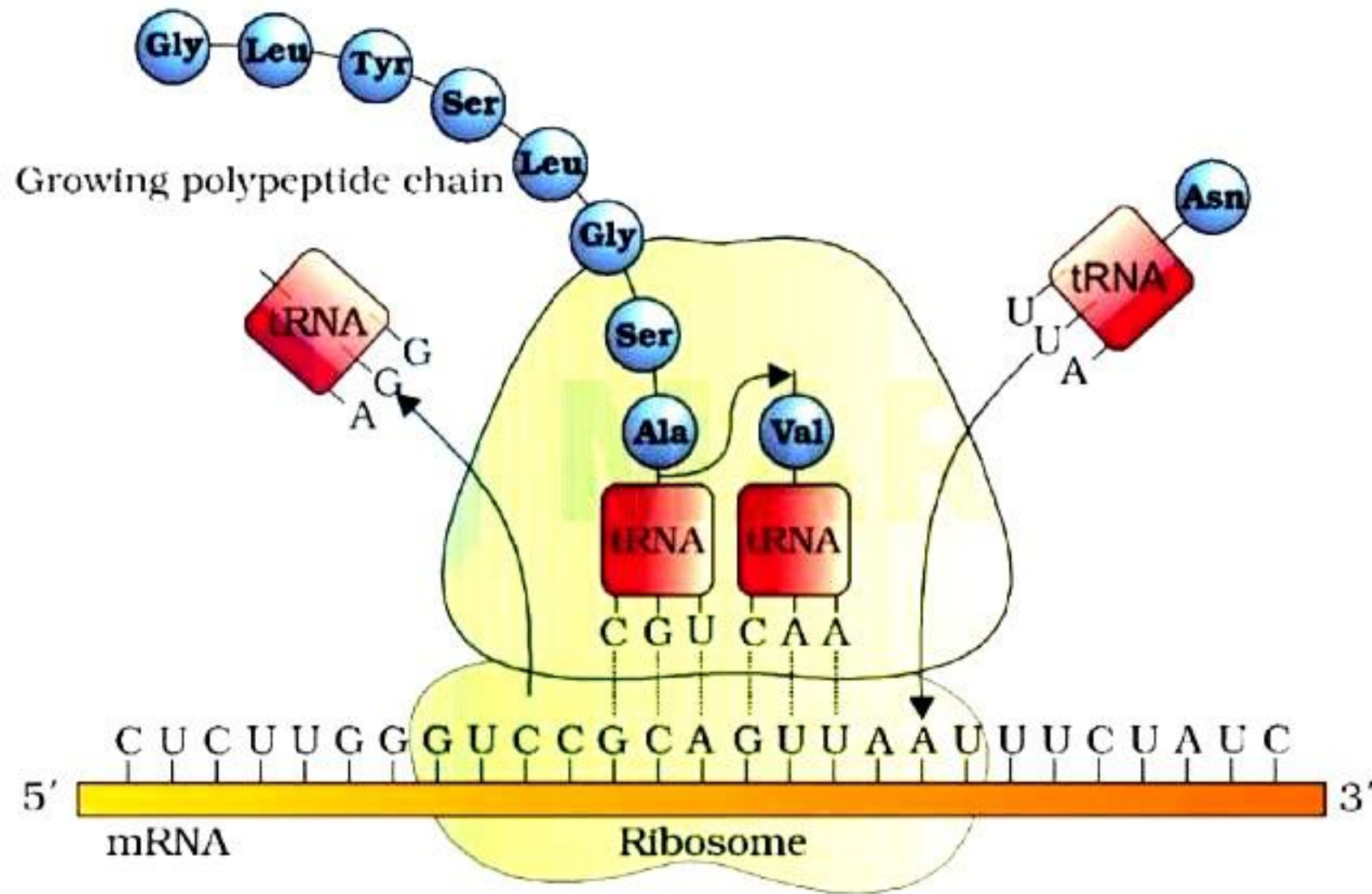
- A. tRNA - the adapter molecule
- B. rRNA - the adapter molecule
- C. mRNA - the adapter molecule
- D. None of the above

Ans. (A)



## Set – 12

Q1. What does the given figure represent?

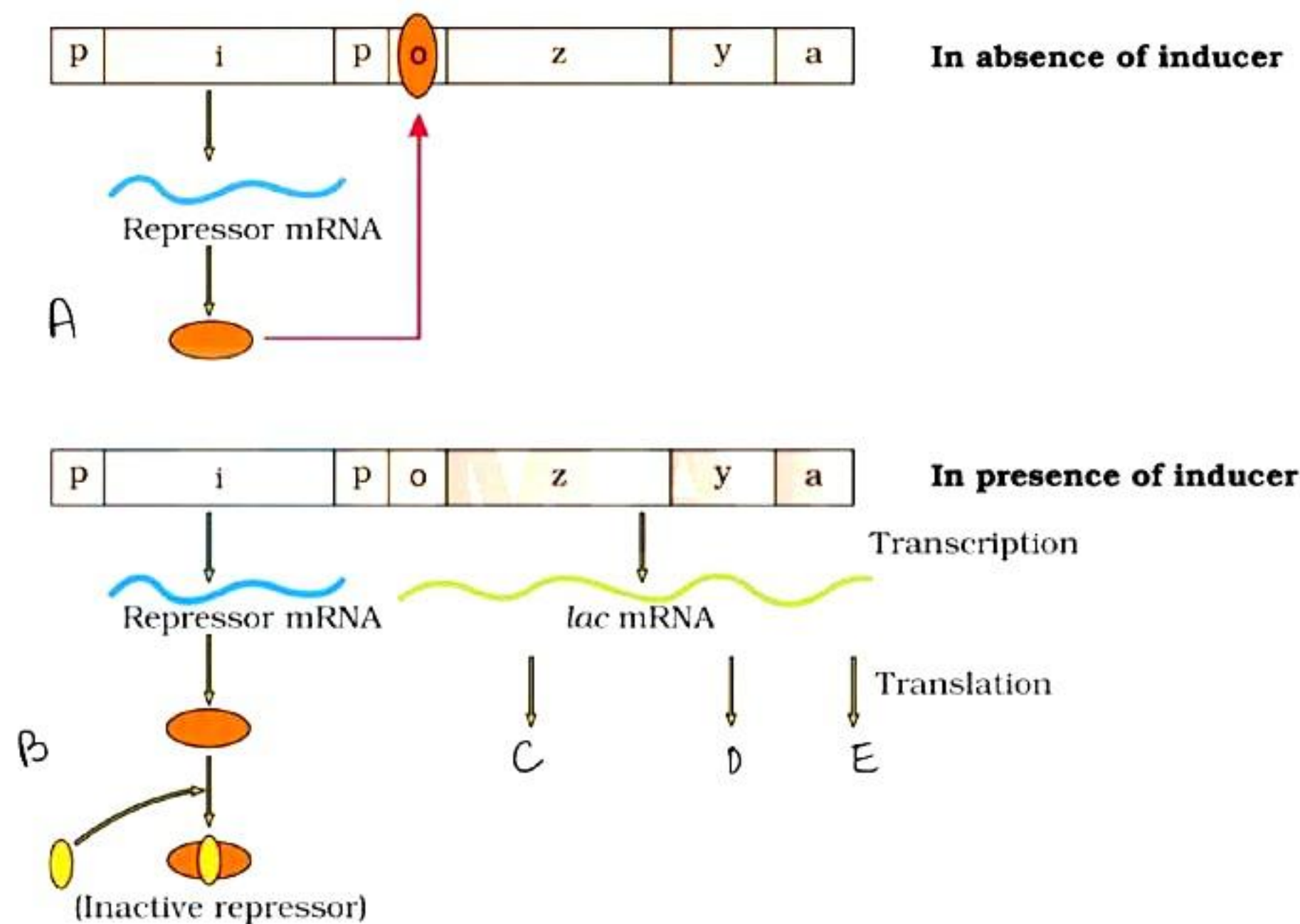


- A. Replication
- B. Translation
- C. transcription
- D. none of the above

Ans. (B)

## Set – 13

Q1. In the given figure, what does A, B, C, D and E represent?



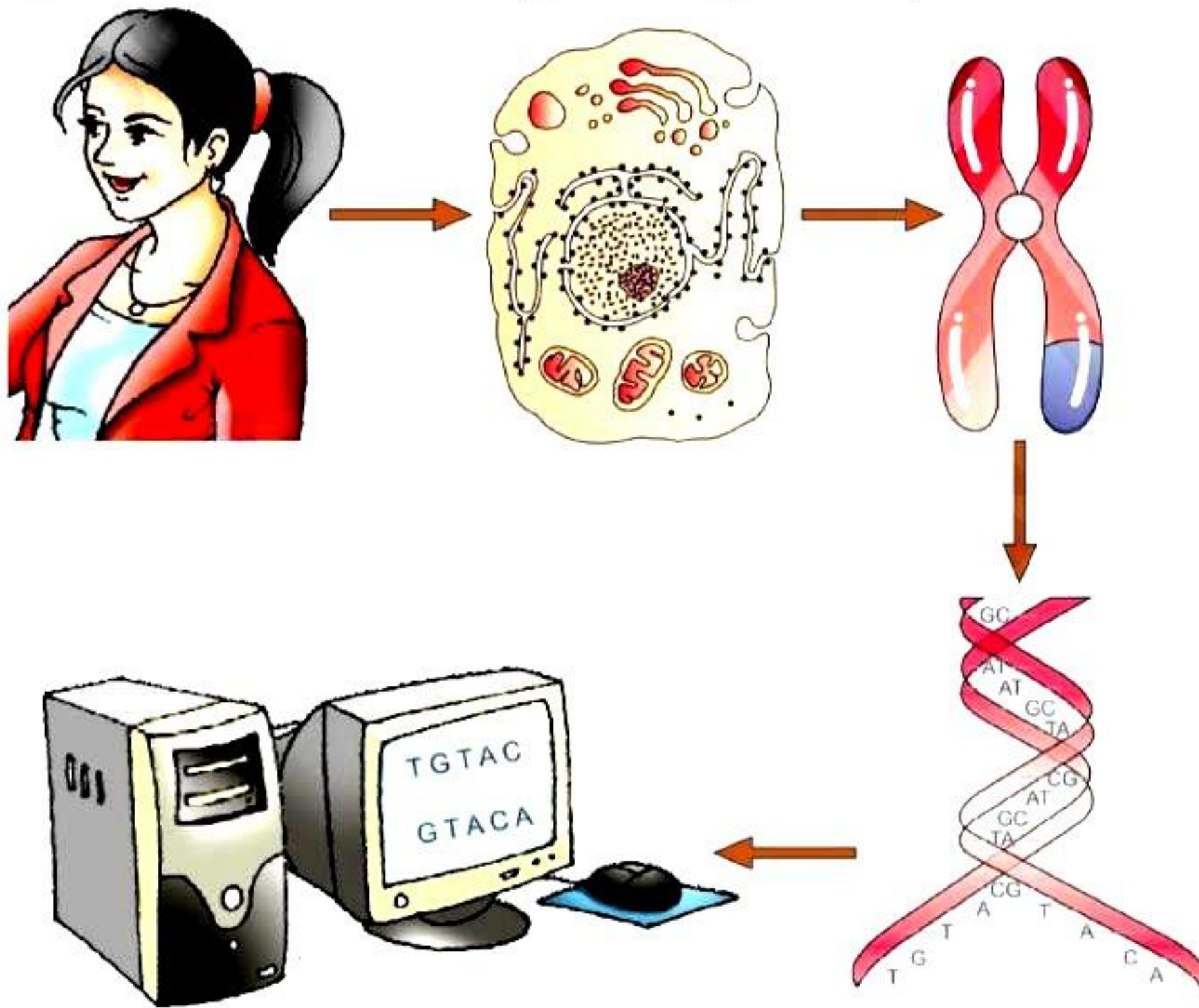
- A. repressor, inducer, beta-galactosidase, permease, transacetylase
- B. transacetylase, permease, beta-galactosidase, inducer, repressor

- C. repressor, beta-galactosidase, permease, transacetylase, inducer
- D. Inducer, repressor, beta-galactosidase, permease, transacetylase

Ans. (A)

### Set – 14

Q1. What does the given figure represent?

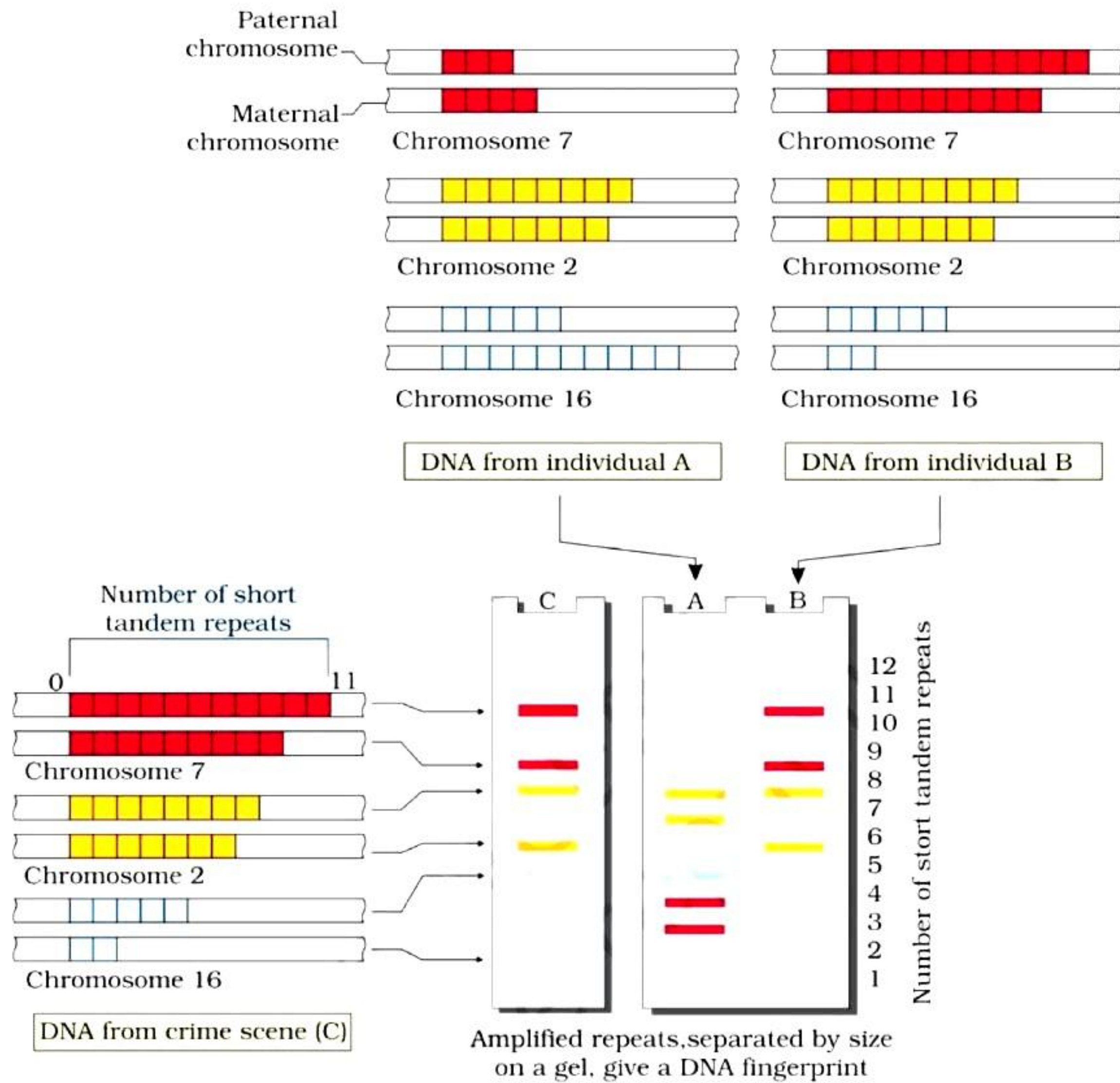


- A. Human genome project
- B. Fingerprinting
- C. DNA fingerprinting
- D. None of the above

Ans. (A)

## Set – 15

Q1. What does the given figure represent?



- A. DNA fingerprinting
- B. DNA
- C. RNA
- D. Human genome project

Ans. (A)

