

BIOLOGY

Class-6

Consider the following statements:

1) Adenoviruses have single-stranded DNA genomes whereas retroviruses have double-stranded DNA genomes.

2) Common cold is sometimes caused by an adenovirus whereas AIDS is caused by a retrovirus.

Which of the statements given above is/are correct?

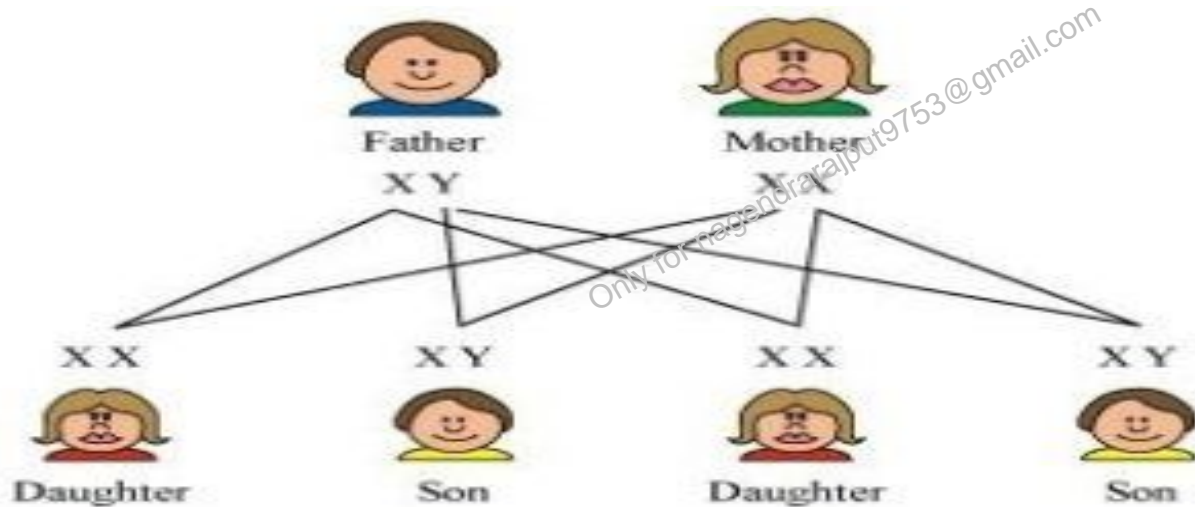
a) 1 Only

b) 2 Only

c) Both 1 and 2

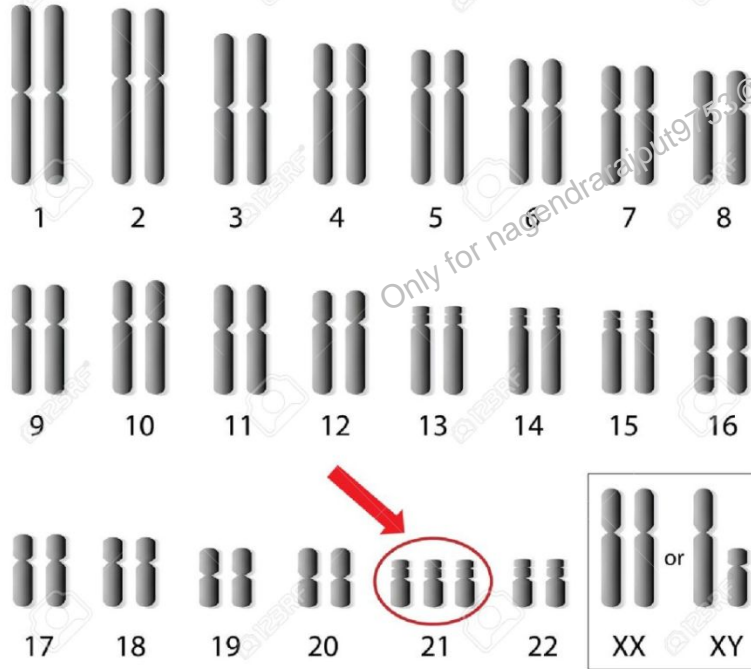
d) Neither 1 nor 2

SEX DETERMINATION

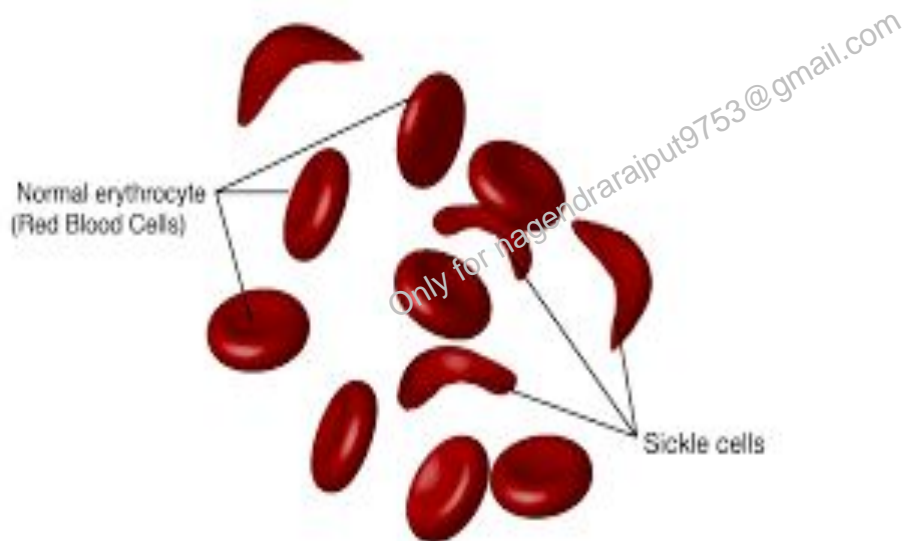


GENETIC ABNORMALITIES

Down Syndrome - Trisomy 21



GENE DEFECTS

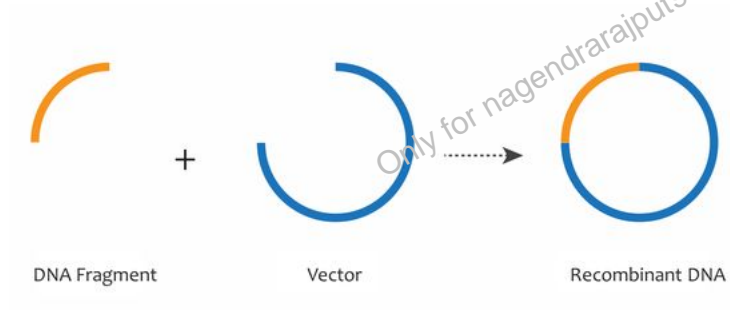


In the context of genetic disorders, consider the following:

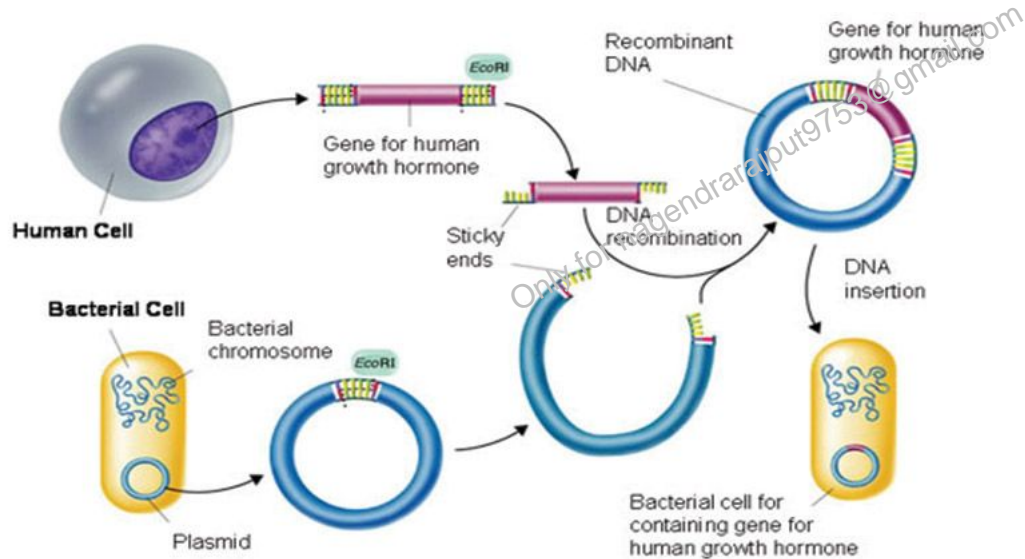
A woman suffers from colour blindness while her husband does not suffer from it. They have a son and a daughter. In this context, which one of the following statements is most probably correct?

- A. Both children suffer from colour blindness.
- B. Daughter suffers from colour blindness while son does not suffer from it.
- C. Both children do not suffer from colour blindness.
- D. Son suffers from colour blindness while daughter does not suffer from it.

BIOTECHNOLOGY



RECOMBINANT DNA TECHNOLOGY



Recombinant DNA technology (Genetic Engineering) allows genes to be transferred

1. across different species of plants
2. from animals to plants
3. from microorganisms to higher organisms

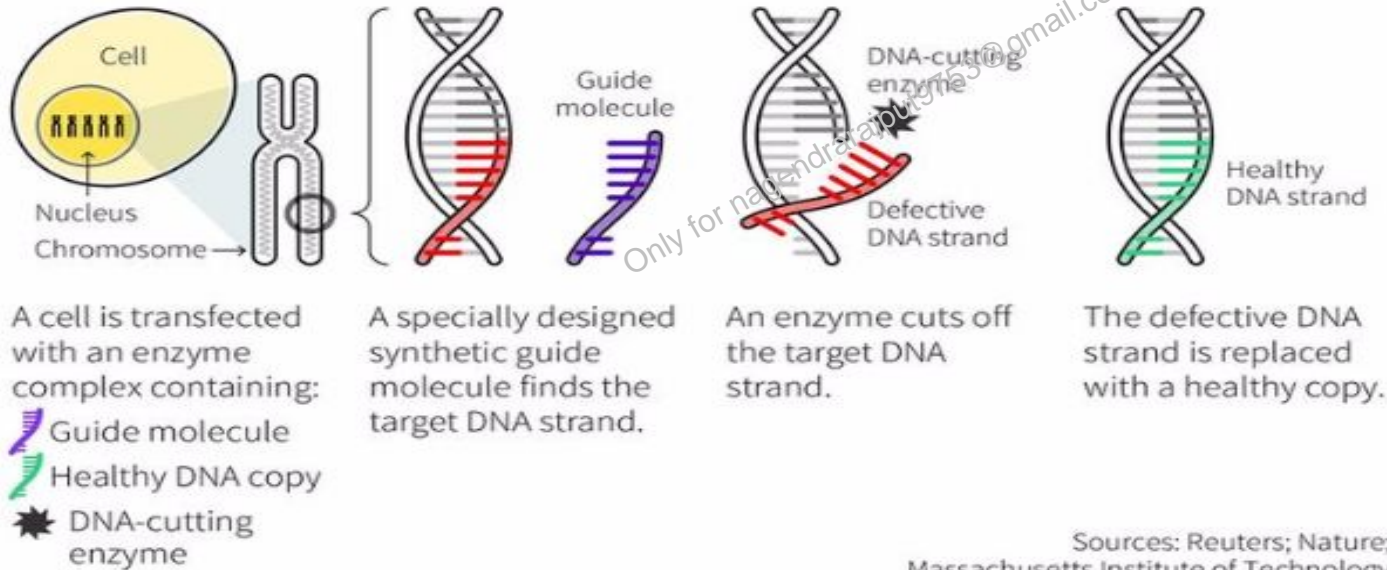
Select the correct answer using the codes given below.

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

DNA editing

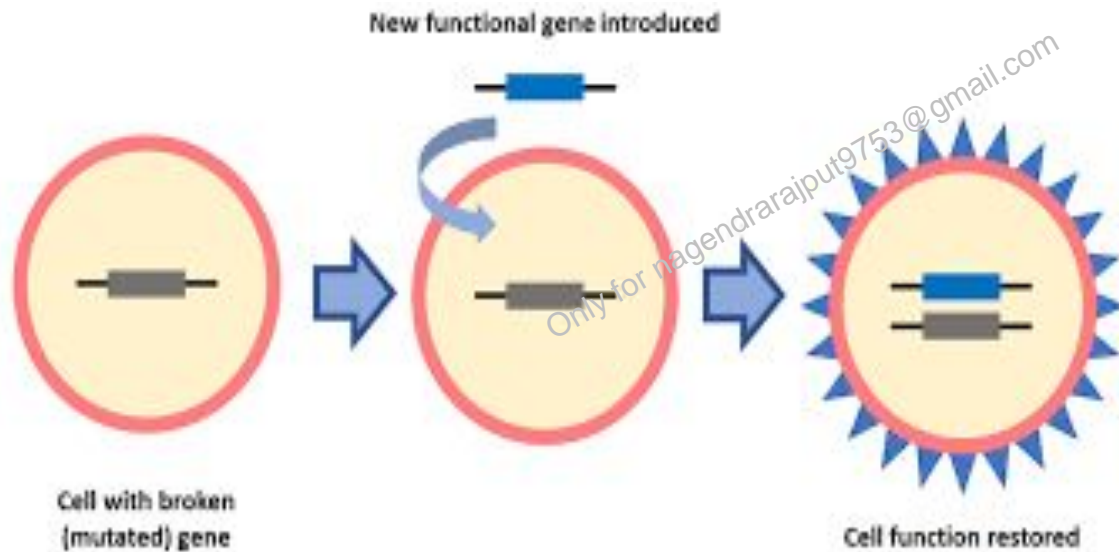
A DNA editing technique, called CRISPR/Cas9, works like a biological version of a word-processing programme's "find and replace" function.

HOW THE TECHNIQUE WORKS



Sources: Reuters; Nature;
Massachusetts Institute of Technology

GENE THERAPY



Dolly
THE SHEEP



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ANIMAL CLONING

