

Biology- 7

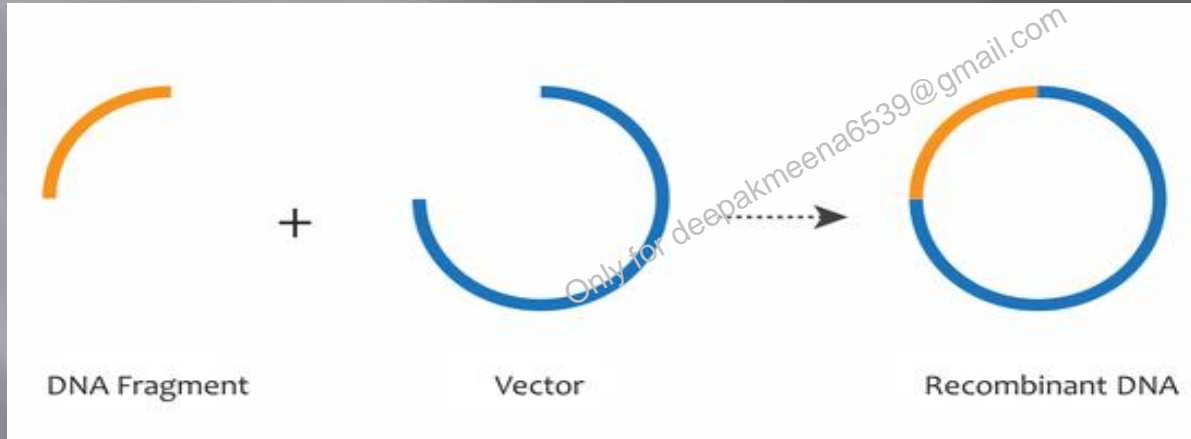
Consider the following statements:

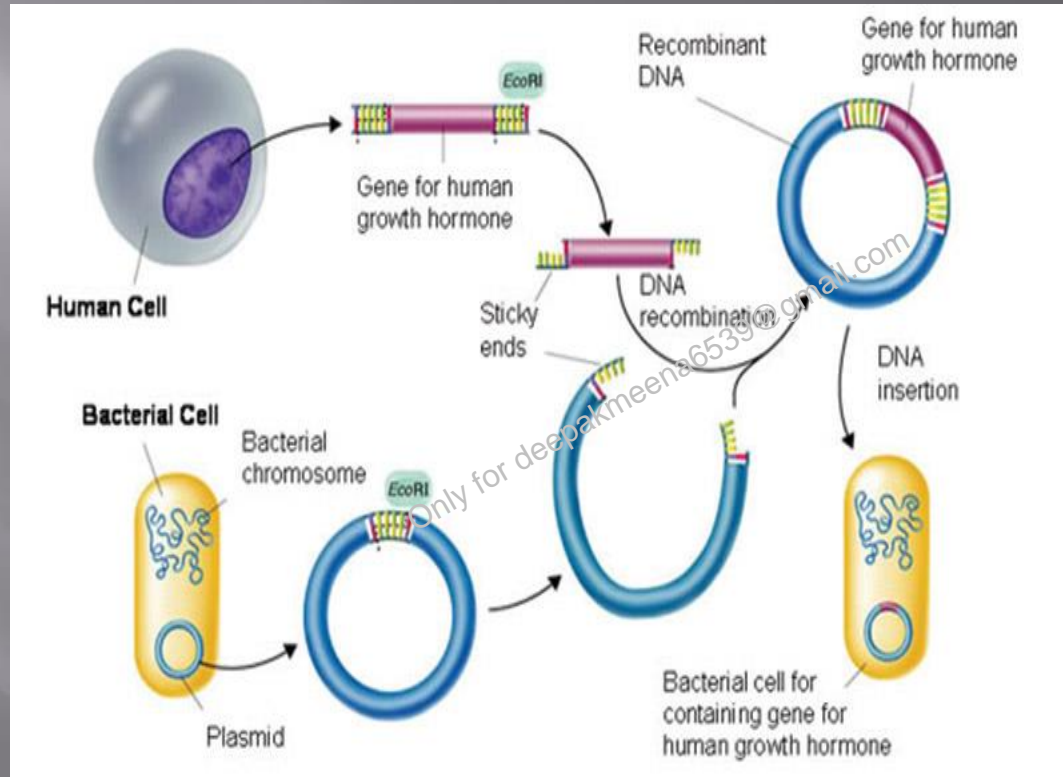
- 1) Adenoviruses have single-stranded DNA genomes whereas retroviruses have double-stranded DNA genomes.
- 2) Common cold is sometimes caused by an adenovirus whereas AIDS is caused by a **retrovirus**.

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

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.

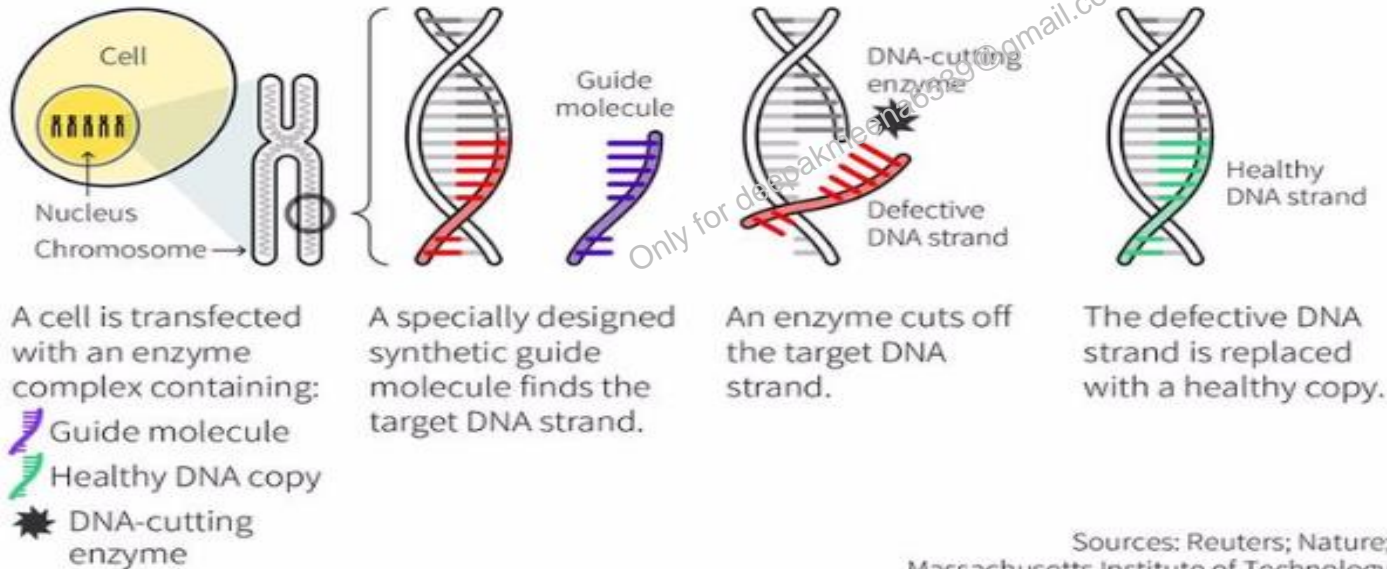
- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- ☒ (d) 1, 2 and 3

Only for deepameenad539@gmail.com

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



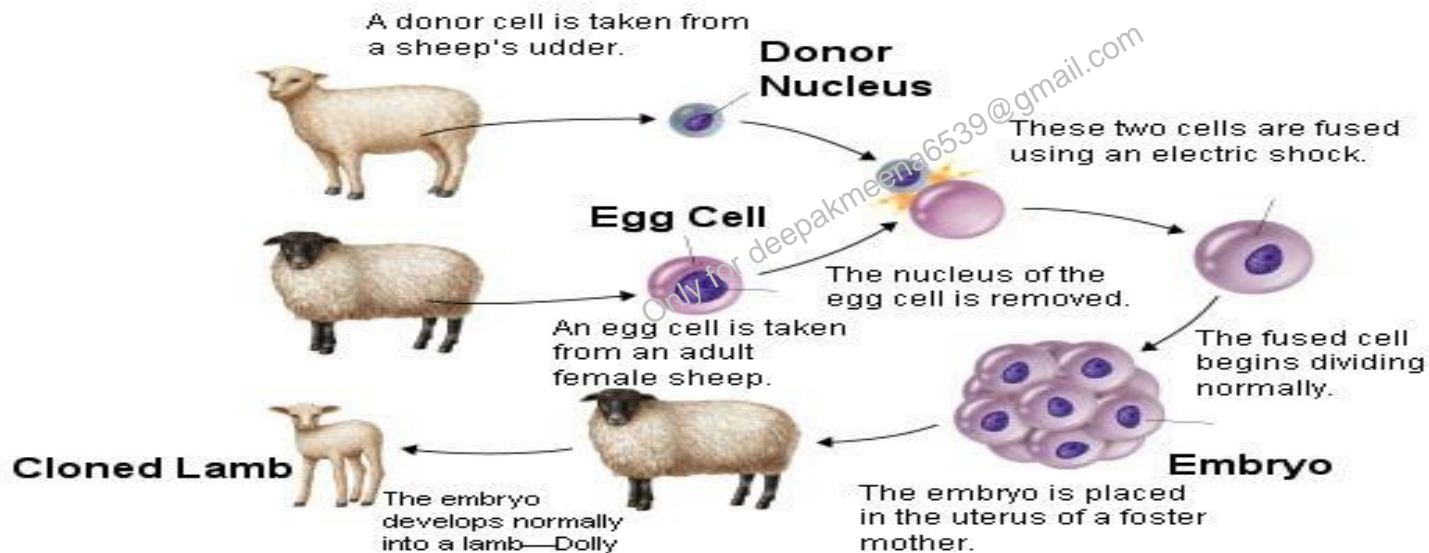
Sources: Reuters; Nature;
Massachusetts Institute of Technology

Dolly
THE SHEEP



Only for sheep.kmeena6530@gmail.com

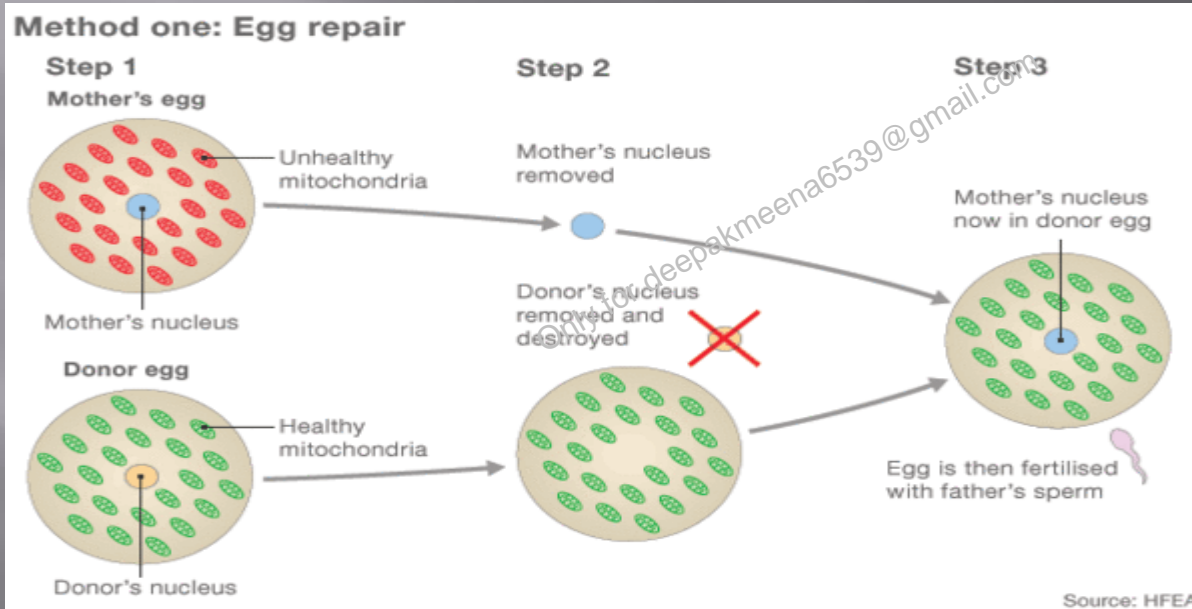
Animal Cloning



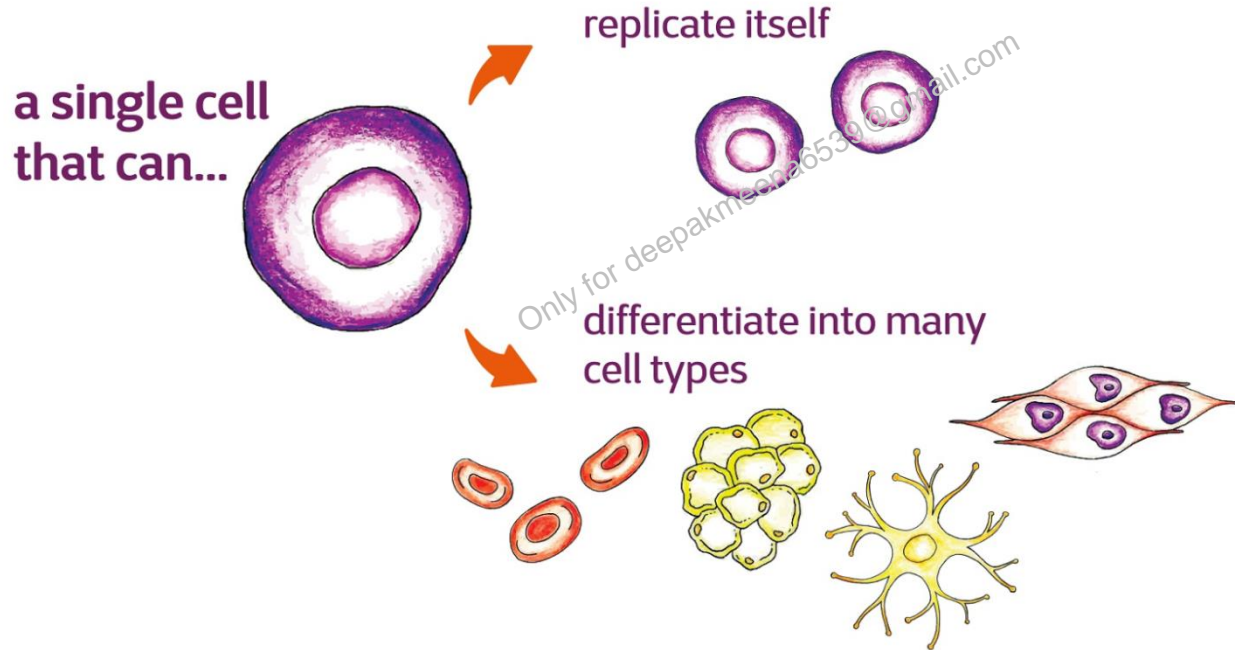
Three Parents baby



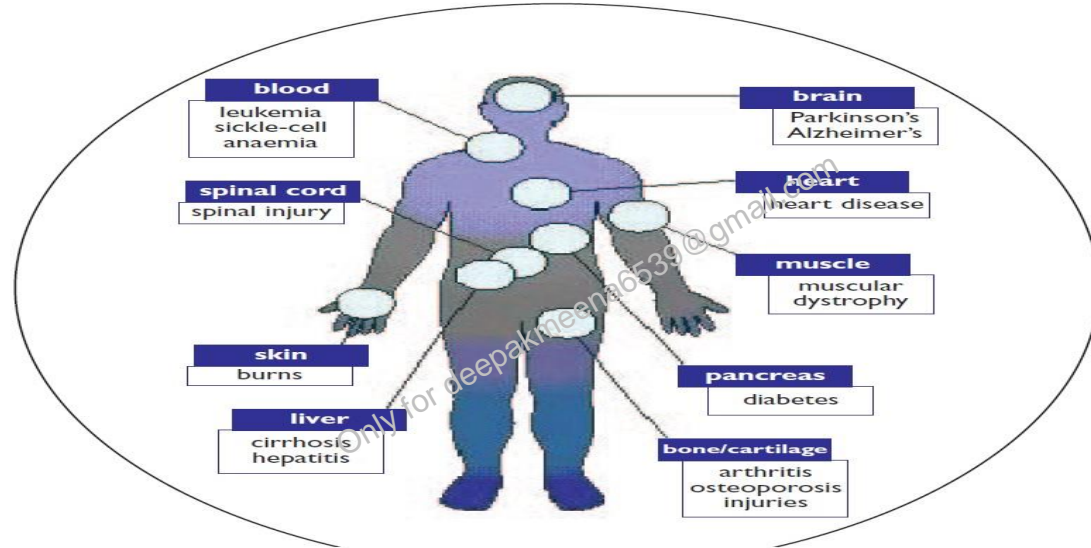
Mitochondrial Replacement



Stem Cells



Potential stem cell therapy applications



Degenerative diseases of many tissues and organs might be treated by transplanting either stem cells or stem cell-derived material

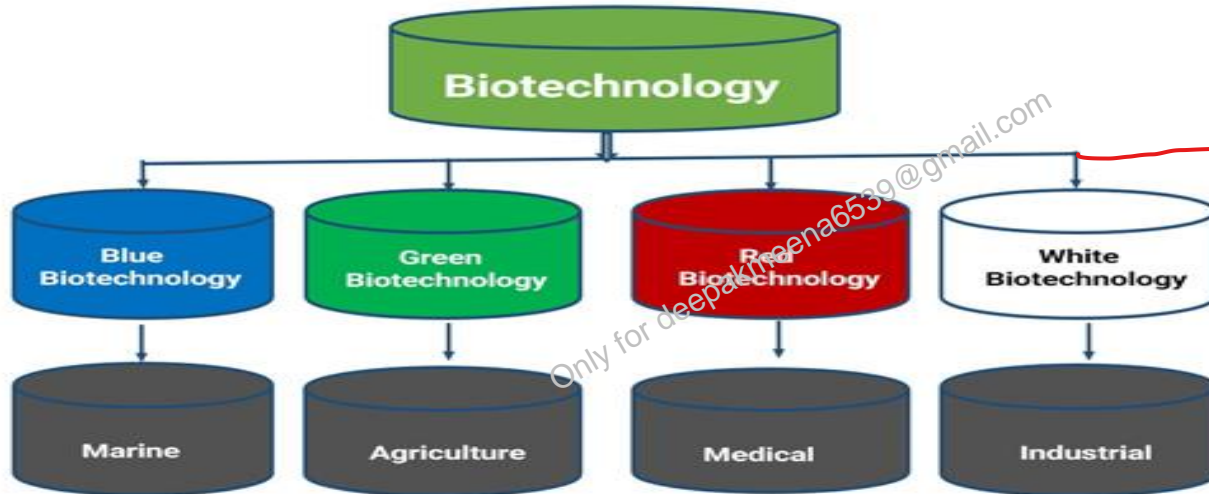
REGENERATIVE MEDICINE

With reference to 'stem cells', frequently in the news, which of the following statements is/are correct?

1. Stem cells can be derived from mammals only.
2. Stem cells can be used for screening new drugs.
3. Stem cells can be used for medical therapies.

Select the correct answer using the codes given below :

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



Grey
↓
Environment