

\* What is genome sequencing? How significant is the Genome India project in Indian healthcare.

The Genome India project recently mapped 10,000 genomes of Indians generating a reference genetic map of India.

Genome sequencing The entire set of DNA instructions in a cell is known as genome. The figuring out order of DNA nucleotides in a genome is called as genome sequencing.

The Department of Biotechnology and many other institutes work through the Genome India project.

Relevance of the project

The project helps in

① Diagnosis - more than 80% of Indian are enveloped and have greater chances of gene mutations.

The data from the project can be used to predict the mutations and prescribe the required treatment

② Personalised drugs can be created as the base pairs are identified, they can be extrapolated to do the same.

③ Disease curing more than 36 million Indians suffer from sickle cell gene disorder which causes many diseases such as thalassemia, sickle cell anaemia etc.

Further efforts for disease curing let's see the sample space must further increase upto leish as in UK and China.

With genome sequencing setting up the pace, the Indian medical industry is set about for a social work on drugs and diagnostics (6:50)