Vaccines :-Vacciones play an important role in stimulating immune exten, Be particularly B and Touth, to protect body from injections. Vaccines can introduce either inacturated or weakened pathogen to laurches altack on perthogen The body does not get the liseuse itself, But the body will launch an immune response O shiperlist (2) Vy bind to generated This generated memory cell is useful because it will know how to kill the introduced pathogen, should it appear again into the body B Both B-cells & Teells can generate Memory cells

Types of Paccines 2-I medicated bacines: These raceines containpathogens that have there is introduced into our dody Threat and generates an Immere Regions Eg: Polio raceine . Rabbies vaccine I have alternated vaccines: These vaccines centains live pathogens that have been severely weaked such that they cannot cause any disease when introduced into our body. Egt. Brall pox. 3) Subject vaccines: These vaccines contains only antigenic components (not entire pathogen) that best stimulate immune response Eg- o Hepatitis B vaccine
HPV vaccine Toxoid vaccines - These vaccines contains inactivated town secreated by sertain bacteria

Effective for preventing diseases caused by bacterial towns Eg: - Diptheria vaccine

9) DNA vaccines - These vaccines contain genetically engineered DNA.
It as a new approach of induction of humanal and cellular
immune responses to protein antigens. It is still in experimental stage. Les Peptide vacciones: These vaccines contain short shains of amine acids derived from pathogen's proteins to stimulate immune response. Eg: - + IV vaccine · COVID-19 vaccine Vaccines yet to be direloped :-) HIV/AIDS 2) Malaria 3) Cancer caused by smoking 4) Pheumatoid arthritis 9) D'aletes