

Q.13 Write a detailed note on Nuclear Fission.

100%

NUCLEAR FISSION

Such a reaction in which a heavy nucleus like Uranium $^{235}_{92}\text{U}$ is broken into two nuclei of nearly equal size along with the emission of energy is called Fission Reaction.

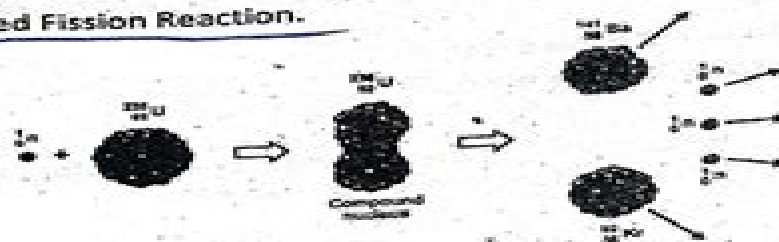


Fig. 21.12

Process of Fission reaction

Explanation:

mcqs
In 1939 two German Scientists made a very important discovery. Their names are Otto Hahn and Fritz Strassmann. They bombarded Uranium $^{235}_{92}\text{U}$ with slow neutrons. A nuclear reaction took place. As a result, Barium $^{141}_{56}\text{Ba}$ and Krypton $^{92}_{36}\text{Kr}$ were formed and on the average 3 neutrons were released along with the release of 200 MeV energy.

This nuclear reaction is different from other nuclear reactions in two way:

1. It releases a large amount of energy.
2. It releases a large number of neutrons.



Comparison of nuclear fission with the difference in the mass of reactants and mass of products.
 Mass of reactants is conserved in the reaction.
 Mass of products is conserved in the reaction.
 Mass difference can be easily explained with the help of the binding energy per nucleon curve.

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