



PHYSICS

BOOKS - PUNJAB BOARD PREVIOUS YEAR PAPERS

Nuclear Reactions



1. Aman designed an atomic power plant which produces 100 MW power by using $_{92}U^{235}$. If

fission of each atom of ${}_{92}U^{235}$ produces 200 Me V of heat energy and the plant converts 90% of it into electric energy then how many grams of ${}_{92}U^{235}$ will be consumed at that plant in a day ?

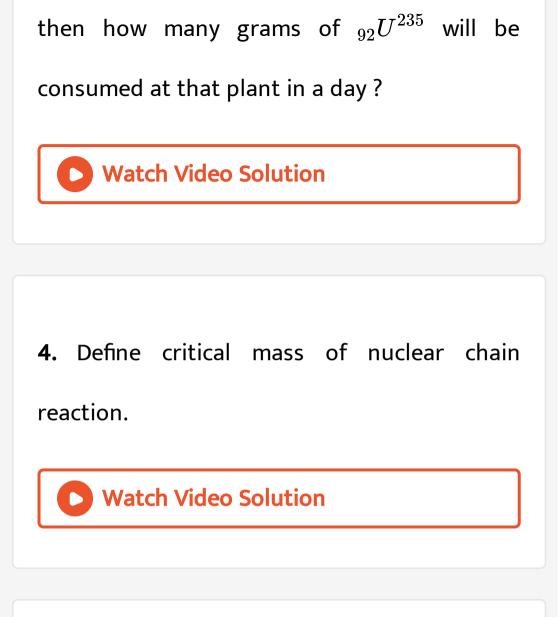
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2. Jagriti designed an atomic power which produces 200 MW power by using ${}_{92}U^{235}$. If fission of each atom of ${}_{92}U^{235}$ produces 200 MeV of heat energy and the plant converts

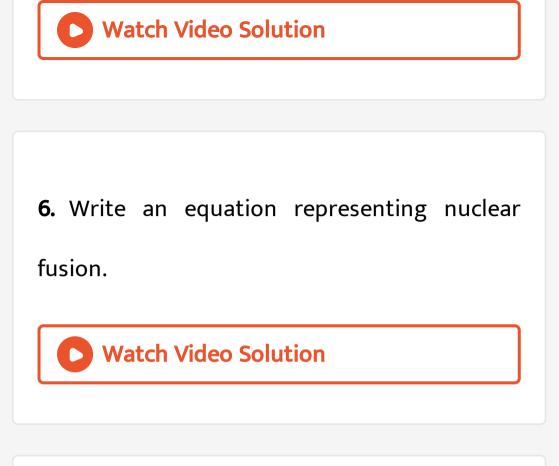
80% of it into electric energy then how many grams of $_{92}U^{235}$ will be consumed by that plant in a day.

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3. Munish designed an atomic power plant which produces 250 MW power by using ${}_{92}U^{235}$. If fission of each atom of ${}_{92}U^{235}$ produces 200 MeV of heat energy and the plant converts 75% of it into electric energy



5. Why are control rods made of cadmium usedto control nuclear chain reaction ?



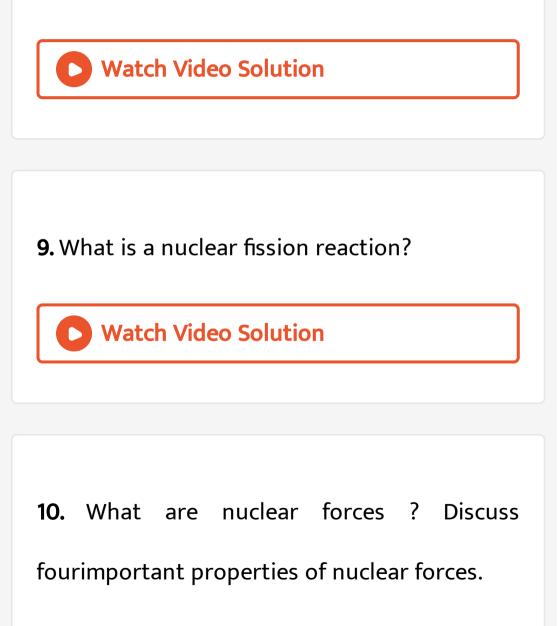
7. Write one similarity and one difference

between nuclear fusion and fission.

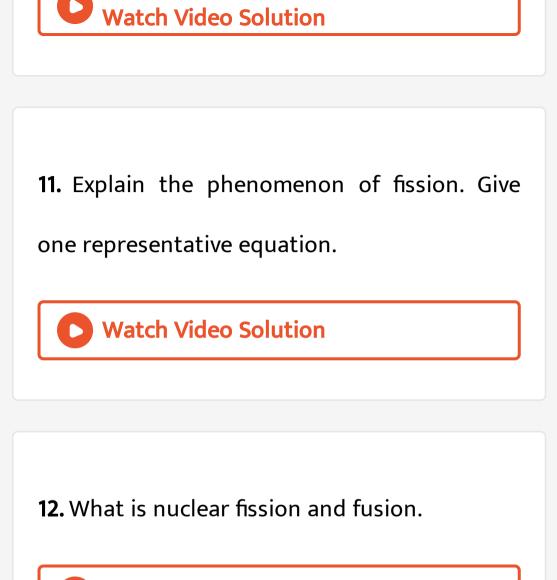
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8. A fusion reaction is more energetic than

fission reaction. Comment.







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