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Extra Credit Quiz

Physics 105 25 November 2002

- 1. Uranium is created
 - (a) in stars like our sun.
 - (b) in the hot core of the Earth.
 - (c) no, uranium was always there.
 - \Rightarrow (d) in supernova explosions.
 - (e) in the night kitchen.
- 2. Nuclear fusion is the process by which
 - (a) a large nucleus breaks into 2 or more pieces.
 - ⇒ (b) two nuclei come together to form a single nucleus.
 - (c) two atoms form a molecule.
 - (d) radioactive waste is cast in molten glass.
 - (e) a hot new cuisine is created.
- 3. A fission chain reaction can be sustained by the isotope
 - 3. A hission chain reaction \Rightarrow (a) $_{92}^{235}$ U or $_{94}^{238}$ Pu. (b) $_{91}^{218}$ Pa or $_{92}^{238}$ Np. (c) $_{92}^{234}$ Th or $_{92}^{238}$ U. (d) $_{92}^{238}$ U or $_{90}^{234}$ Th. (e) $_{92}^{235}$ U or $_{92}^{238}$ U.
- 4. The Manhattan Project occurred during
 - (a) the War of 1812.
 - (b) the Korean War.
 - (c) the Vietnam War.
 - (d) World War I.
 - \Rightarrow (e) World War II.