Metallurgical Engineering Nuclear Metals Objective Questions and Answers Pdf

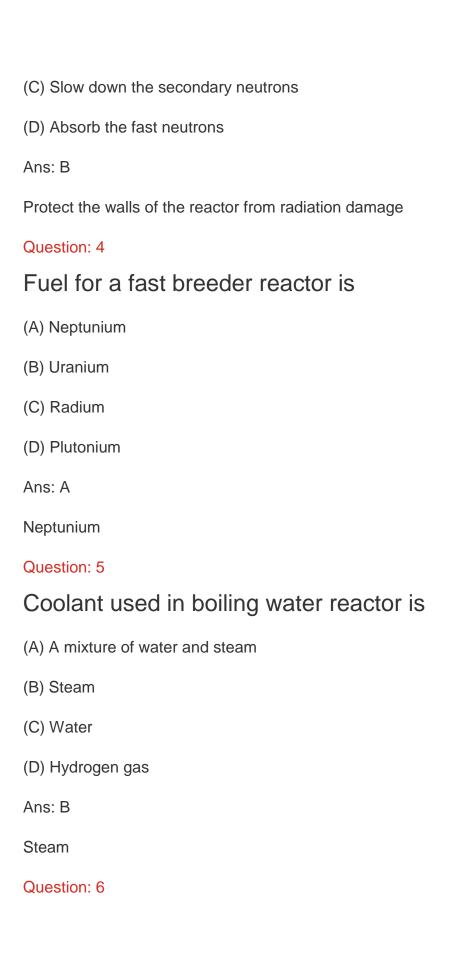
Question: 1

Which of the following accounts for the maximum energy release in the nuclear fission process?

release in the hadical hission process:
(A) Kinetic energy of fission products
(B) Kinetic energy of neutrons
(C) Instantaneous release of gamma rays
(D) Radioactive decay of fission products
Ans: A
Kinetic energy of fission products
Question: 2
Main source of is monazite sand.
(A) Thorium
(B) Hafnium
(C) Polonium
(D) Uranium
Ans: A
Thorium
Question: 3
Thermal shield is used in high powered nuclear reactors to

(A) Protect the fuel element from coming in contact with the coolant

(B) Protect the walls of the reactor from radiation damage



nuclear reactor does not require a heat exchanger to supply steam to power turbine.
(A) Pressurised water
(B) Boiling water
(C) Helium cooled
(D) Molten sodium cooled
Ans: B
Boiling water
Question: 7
Which of the following is not used as a nuclear fuel cladding material?
(A) Stainless steel
(B) Ceramics
(C) Cadmium
(D) Zircalloy
Ans: C
Cadmium
Question: 8
Ordinary water is not used as moderator, because it
(A) Absorbs neutrons
(B) Does not absorb neutrons
(C) Has a low scattering cross section

(D) Has a low absorption cross section Ans: A
Absorbs neutrons
Question: 9
Fast breeder reactors are most usable in India, because of our largest deposits.
(A) Uranium
(B) Plutonium
(C) Thorium
(D) None of these
Ans: C
Thorium
Question: 10
The main ore of thorium is
(A) Galena
(B) Limonite
(C) Monazite
(D) Pitchblende
Ans: C
Monazite