

Metallurgical Engineering Nuclear Metals MCQ Questions and Answers Pdf

1. Fuel for a nuclear reactor (thermal) is
 - a. Uranium
 - b. Plutonium
 - c. Radium
 - d. None of theseAns: A
2. A thermal nuclear reactor compared to a fast breeder reactor
 - a. Uses slower neutrons for fission
 - b. Uses faster neutrons for fission
 - c. Gives higher power density
 - d. Requires less fuel to run at the same power levelAns: A
3. Atoms with the same number of neutrons, but different number of nucleons are called
 - a. Isotones
 - b. Isobars
 - c. Isotopes
 - d. IsotersAns: A
4. The first underground nuclear test was conducted by India at
 - a. Jaisalmer
 - b. Pokharan
 - c. Kalpakkam
 - d. NaroraAns: B
5. Which of the following is a non-fissile material?
 - a. Plutonium-239
 - b. Uranium-235
 - c. Uranium-233
 - d. Thorium-232Ans: D
6. Positron is a/an
 - a. Nucleus having two protons
 - b. Helium nucleus
 - c. Electron with positive charge
 - d. Nucleus with one proton and one neutronAns: C
7. Radioactivity of an isotope is expressed in
 - a. Barns
 - b. MeV

- c. Curie
- d. Ergs

Ans: C

8. Which of the following nuclear reactors is the most prone to radioactive hazards?
- a. Pressurised water reactor
 - b. Gas cooled reactor
 - c. Molten sodium cooled reactor
 - d. Boiling water reactor

Ans: D

9. Which one is radioactive in nature?
- a. Helium
 - b. Deuterium
 - c. Heavy hydrogen
 - d. Tritium

Ans: D

10. Which of the following is a moderating material used in nuclear reactor?
- a. Graphite
 - b. Cadmium
 - c. Zircalloy (an alloy of zirconium and aluminium)
 - d. Stainles steel

Ans: A

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